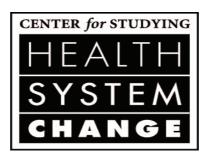
# 2008 Health Tracking Physician Survey Restricted Use File: User's Guide (Release 1)



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**Technical Publication No.** 



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#### 2008 HSC Health Tracking Physician Survey Fact Sheet

Survey Details				
Sample	4,720 physicians in the U.S. providing direct patient care for at least 20 hours per week, excluding federal employees, specialists in fields where the primary focus is not direct patient care, and foreign medical school graduates who are only temporarily licensed to practice in the U.S. Also excludes residents and fellows.			
Time Period February 2008-October 2008				
Content	Basic information on practice, specialty, and board certification Career satisfaction Practice arrangements and ownership Physician time allocation, productivity Charity care provision Patient case mix: race, ethnicity, chronic conditions, language Availability of health IT in practice Hospital safety Quality and coordination of patient care Inability to obtain needed services for patients Importance of factors that may limit quality care Acceptance of New Patients Practice revenue Malpractice concerns Medical Equipment and Hospital Ownership Compensation			
	Physician race/ethnicity			
Geographic areas represented	Types of Estimates  These data are designed to allow the user to calculate nationally representative estimates. Respondents are located in all 50 states and the District of Columbia.			
Estimates for 2008	These data can be used for calculating cross-sectional estimates representing the year 2008.			
	Using the Data Files			
Obtaining the data files and documentation	The data files and documentation are available through the Inter-University Consortium for Political and Social Research (ICPSR). The Web site is <a href="https://www.icpsr.umich.edu">www.icpsr.umich.edu</a> .			
	The Public Use File can be downloaded at no cost directly from the ICPSR Web site. The Restricted Use File is available to approved users only and is available at no or nominal fee. ICPSR provides the restricted data file on CD. To obtain permission to use the Restricted Use File, users must comply with conditions listed in the <i>Health Tracking Physician Survey, 2008 Restricted Data Use Agreement</i> , such as limiting data access to people specified in the agreement and destroying the data upon completion of the specified research project. Copies of the agreement and a description of the application process are available from			

	·			
	the ICPSR Web site.			
Differences between	The Public Use File contains less detailed information than the			
the Public Use File	Restricted Use File in order to preserve the confidentiality of the survey			
and the Restricted Use	respondents. The two files contain the same number of observations, but			
File.	the Public Use File has fewer variables, some of which have undergone more extensive editing than those on the Restricted Use File. The Public			
	Use File does not contain information on the geographic location of the			
	physician's practice. It also does not contain the information necessary			
	for using statistical software programs that account for the complex			
	survey design, which means that it cannot be used for calculating			
	corrected standard errors. However, due to the straightforward sample			
	design, design effects are close to one. This means that use of statistical			
	software that does not account for complex survey design will produce			
	estimates of statistical precision that are only slightly biased.			
Contacting the	HSCdataHelp@hschange.org			
CTS/HSC-HT help				
desk				

#### **PREFACE**

Data collection for the 2008 HSC Health Tracking Physician Survey began on Feb. 5, 2008, and was completed on Oct. 31, 2008. Earlier versions of the survey, previously known as the Community Tracking Study (CTS) Physician Survey, were conducted in 1996-97, 1998-99, 2000-01, and 2004-2005. Each survey was designed to allow separate cross-sectional estimates. Researchers can use the four rounds of the CTS Physician Survey for separate cross-sectional analyses at the national or local market level or combine the years to study changes in the health care system over time. The 2008 survey employed a different mode of administration and sample structure and consequently cannot be combined with data from prior CTS physician surveys (see box on page 3 explaining the reasons for these changes and plans for future surveys).

This user's guide presents background information about the 2008 HSC Health Tracking Physician Survey, explains how to calculate nationally representative estimates from the data, and illustrates the correct method for estimating variances. This discussion is followed by a description of variable construction, editing and other information about the data file. The appendices contain the survey instrument, a list of the variables included in the public- and restricted-use data files, and sample statements for statistical programming analyses. The 2008 Health Tracking Physician Survey Public Use File: Codebook provides more detail on the data file, including frequencies and variable definitions.

#### **ACKNOWLEDGMENTS**

The Center for Studying Health System Change (HSC) would like to express its great appreciation to three contractors who performed vital roles in the implementation of the survey: Mathematica Policy Research, Inc. (MPR) for the sample design and weighting; Westat for data collection, coding, and initial editing; and Social and Scientific Systems, Inc. (SSS) for final

editing and imputation of the data and construction of accompanying codebooks and datafile. MPR also assisted in developing measures to assure data confidentiality.

#### OBTAINING AND USING THE RESTRICTED USE FILE

In order to obtain and use this Restricted Use File, researchers must apply for access to the data and agree to the strict terms and conditions contained in the *Community Tracking Study Physician Survey Restricted Use Data Agreement*. Information about the application process and the data use agreement are available from the ICPSR Web site (www.icpsr.umich.edu).

Before applying to use the 2008 HSC Health Tracking Physician Survey Restricted Use File, researchers should consider whether the Public Use File would serve their analytic needs. The public use and restricted use versions differ in the amount of geographic detail provided and the confidentiality masking applied to some variables. The Restricted Use File contains state and county-level identifiers for each observation, while the Public Use File does not. The Restricted Use File also provides more detailed information on physician specialty/subspecialty, physician ownership status, practice ownership interests, and race/ethnicity than is provided on the Public Use File. Moreover, information necessary for using statistical software programs that account for the survey design is not included on the Public Use File.

Information on the Public Use File is available in 2008 HSC Health Tracking Physician Survey Public Use File: User's Guide and 2008 HSC Health Tracking Physician Survey Public Use File: Codebook, available from the ICPSR Web site (www.icpsr.umich.edu).

#### **OBTAINING TECHNICAL ASSISTANCE**

Information on the 2008 HSC Health Tracking Physician Survey, and previous CTS surveys, can be obtained through the HSC Internet home page at <a href="http://www.hschange.org">http://www.hschange.org</a>. The public use and restricted use files, as well as the documentation, are available through the Inter-university Consortium for Political and Social Research at <a href="http://www.icpsr.umich.edu">http://www.icpsr.umich.edu</a>.

Technical assistance on issues related to the data file can be obtained by contacting the CTS/HSC-HT Help Desk by e-mail at HSCdataHelp@hschange.org.

#### VISIT THE HSC WEB SITE

www.hschange.org

For users of the HSC Health Tracking and CTS data files, the HSC Web site can be a valuable resource. In addition to HSC technical publications and descriptions of the different data collection activities, it has these useful features.

**HSCdataOnline user-specified tables.** HSCdataOnline is an interactive, Web-based system that allows users to request a wide variety of tables with estimates from the CTS

Physician and Household Surveys, as well as from the HSC Health Tracking Physician and Household Surveys.

Lists of papers published from the public use and restricted use data files. In the section of the Web site that discusses the public and restricted use data, you can view a list of journal articles that have been published by users of the Health Tracking and CTS public use and restricted use data files. If you have a paper based on the CTS or HSC Health Tracking data that is not included on the list, please let us know by sending an e-mail to HSCdataOnline@hschange.org.

*E-mail list for updates on the data.* If you would like to receive e-mail announcements when new versions of the data files are released, go to the Web site and click on "Sign up for e-mail alerts." Then fill out the sign-up form and check the box specific to HSCdataOnline@hschange.org.

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# CHAPTER 1 OVERVIEW OF THE 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY

This guide is intended to assist researchers in using the 2008 HSC Health Tracking Physician Survey Restricted Use File. This is a nationally representative survey of U.S. physicians providing at least 20 hours per week of direct patient care. The study covers a wide variety of topics, from practice arrangements and compensation methods to physicians' ability to provide needed services to their patients and the impact of care management strategies on their practices. Funded by the Robert Wood Johnson Foundation (RWJF), the study was conducted by the Center for Studying Health System Change (HSC). Additional documentation and detailed information on the file layout and content are available in 2008 HSC Health Tracking Physician Survey Restricted Use File: Codebook. A methodology report providing details on the sample design and data collection is available at <a href="www.hschange.org/CONTENT/1085/">www.hschange.org/CONTENT/1085/</a>. Information about other aspects of the study is available from HSC at <a href="www.hschange.org">www.hschange.org</a>. Technical assistance on issues related to the data file may be obtained by contacting the CTS Help Desk by e-mail at <a href="https://hschange.org">HSCdataHelp@hschange.org</a>.

#### 1.1. THE 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY

The 2008 HSC Health Tracking Physician Survey, funded by the Robert Wood Johnson Foundation, was conducted under the direction of HSC. Westat conducted the mail survey and tracing of physicians who could not be located. Mathematica Policy Research, Inc. (MPR) was responsible for sample design and weighting. New survey items developed by HSC underwent cognitive testing, conducted by HSC consultant, Carolyn Miller. Social and Scientific Systems, Inc. (SSS) was instrumental in converting the raw survey data into a data file suitable for analysis. MPR, SSS, and HSC collaborated to prepare the documentation for the public and restricted use files.

The 2008 survey instrument collected information on physician characteristics and specialty distribution; practice arrangements and physician ownership; physician time allocation, including time spent communicating with patients via e-mail and telephone; use of interpreter services; sources of practice revenue; level and determinants of physician compensation; provision of charity care; use of health information technology physicians' perception of their ability to deliver care and of career satisfaction; effects of care management strategies; extent of care coordination; malpractice concerns; financial interest in medical equipment and hospitals; and various other aspects of physicians' practice of medicine. Appendix A provides a copy of the questionnaire.

The survey was administered by mail. The sample frame was derived from a list of physicians from the American Medical Association (AMA) and consisted of active, non-federal, office- and

hospital-based physicians providing at least 20 hours per week of direct patient care. Surveys of 4,720 physicians were completed between February and October 2008.<sup>1</sup>

#### 1.2. RELATIONSHIP TO THE COMMUNITY TRACKING STUDY

The 2008 HSC Health Tracking Physician Survey was preceded by the Community Tracking Study (CTS) Physician Surveys. The CTS is a longitudinal study of changes in the health care market and the effects of those changes on people and providers nationwide and in select communities across the U.S.. Its objective is to provide sound empirical evidence to inform the debate surrounding health system change. Conducted between 1996 and 2005, the CTS is based upon a series of periodic site visits and surveys of household and physicians.<sup>2</sup>

Respondents in the four rounds of CTS surveys were sampled predominantly from 60 nationally representative communities stratified by region, community size, and whether metropolitan or nonmetropolitan. In addition, the CTS examined 12 of the 60 communities in depth by conducting site visits and, for rounds one through three, using survey samples large enough to draw conclusions about health system change in each of the 12 site visit communities. Supplemental national samples were also added to the first three rounds of CTS surveys.

For budgetary reasons, the community-based design was replaced by a national sample design for the 2008 Physician Survey and 2007 Household Survey, although site visits continue to be focused on the 12 communities (6 rounds of site visits have been completed, with the latest occurring in 2007). Because the latest samples are no longer clustered in communities, the surveys have been renamed the HSC Health Tracking Household and Physician surveys.<sup>3</sup>

In addition to the change in sample design, the 2008 HSC Health Tracking Physician Survey departs from the earlier CTS in several other respects. Most notably, the survey mode was changed from telephone to self-administered mail questionnaire. This prompted some dropping, re-wording and reorganization of questions and skip patterns from earlier rounds to facilitate the new method. The sample for the 2008 survey was drawn from a list provided by the American Medical Association (AMA) only, whereas prior rounds used lists from both the AMA and the American Osteopathic Association (AOA). Finally, the strata in the 2008 survey have been simplified, reflecting the 10 geographic regions (now including Alaska and Hawaii) and specialty designation (PCP or specialist), producing 20 in all.<sup>4</sup>

<sup>3</sup> The name change occurred after the field period commenced, so the survey documents contained in the Appendices still refer to the 2008 physician survey as the CTS physician survey.

<sup>&</sup>lt;sup>1</sup> Refer to the HSC Health Tracking Physician Study Methodology Report for more information on the survey sample (HSC Technical Publication No. 77).

<sup>&</sup>lt;sup>2</sup> Surveys of employers and insurance plans have also been conducted.

<sup>&</sup>lt;sup>4</sup> Past CTS surveys stratified physicians additionally by interview status of the preceding round (reinterviews, non-interviews, and new sample), as some physicians were resampled for panel study.

# Why Were Changes Made That Do Not Allow Tracking From Prior CTS Physician Surveys And What Are The Plans For Future Surveys?

The changes made to the 2008 physician survey relative to prior rounds of the CTS physician survey were primarily motivated by three factors:

- Resources available for the survey were inadequate to support a larger, clustered sample, necessitating a simpler national sample design that was more efficient. Moreover, self-administered mail surveys are much less expensive to conduct than Computer Assisted Telephone Interviewing (CATI) surveys.
- Response rates from CATI surveys of physicians have been consistently declining over time, reflecting movement of physicians into larger practices with more "gatekeepers" and greater use of automated telephone answer systems that made it more difficult to talk directly to a physician, among other factors. These trends escalated the cost of CATI surveys and were likely to result in a 2008 survey whose response rate would be so low that its validity would be questioned and results difficult to publish.
- The CTS surveys began in the mid-1990s when the primary policy concern was the effects of managed care on providers and people. Although incremental changes were made over the years, survey questions remained largely unchanged to allow for tracking. However, the nature and range of policy issues related to physician care in 2008 are very different than they were in 1996, prompting substantial changes to the survey instrument.

We anticipate that future physician surveys will allow tracking from the 2008 survey.

Because of these changes, results from the 2008 Health Tracking Physician Survey cannot be compared to findings from earlier CTS Physician Surveys. Yet as the health system continues to evolve, the 2008 survey is intended to establish a new baseline for future tracking of how physicians organize and practice medicine.

## 1.3. 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY PUBLIC USE FILE AND RESTRICTED USE FILE

Two versions of the 2008 HSC Health Tracking Physician Survey physician-level data files are available to researchers: the Restricted Use File and the Public Use File. The *Restricted Use File* may be used only under the conditions listed in the 2008 Health Tracking Physician Survey Restricted Data Use Agreement. This agreement provides details on ownership of the data, when the data may be obtained and by whom, how the data may be used, the data security procedures that must be implemented, and the sanctions that will be imposed in the case of data misuse. Researchers must specifically apply for use of the Restricted Use File. Copies of the agreement and a description of the application process are available from the Inter-University Consortium for Political and Social Research (ICPSR) Web site at www.icpsr.umich.edu.

The Restricted Use File is provided to researchers for use only on a specific research project (new applications would be required for subsequent analyses using the data) and for a limited time period, after which all copies of the data must be destroyed. Moreover, researchers using the Restricted Use File may be required to undertake costly or inconvenient security measures.

The *Public Use File* is available from ICPSR and can be downloaded directly from the ICPSR Web site. Researchers need not specifically apply for use of the Public Use File. Although it contains all of the same observations as the Restricted Use File, several variables have been deleted or modified slightly for data confidentiality reasons (see below). Moreover, information necessary for using statistical software programs that account for the survey design is not included in the Public Use File. This means that **the Public Use File does not allow researchers to calculate correct standard errors and perform significance tests based on the stratified survey design**. For most researchers, the public use file should be adequate to meet their needs as the sample design has minimal effects on standard errors and it can be used to determine whether it is worthwhile to apply for the restricted use file to pursue additional analysis.

As stated above, the Public Use File does not contain certain data that are available on the Restricted Use File. Other variables on the Public Use File were modified to ensure the confidentiality of survey respondents. These modifications are described in Chapter 5. Appendix B lists the variables available on the public and restricted use versions of the 2008 data files. In that list, a different name for the same variable on the public and restricted use files indicates that the data for this variable underwent additional editing for confidentiality in the public use version.

Researchers are encouraged to review documentation for both the public and restricted use files, available from ICPSR at www.icpsr.umich.edu, as well as the requirements of the 2008 Health Tracking Physician Survey Restricted Data Use Agreement, before deciding which file will meet their needs.

# CHAPTER 2 THE STRUCTURE AND CONTENT OF THE 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY

This chapter describes the 2008 HSC Health Tracking Physician Survey sample design, the process of conducting the survey, the survey content, and survey administration and processing. The Physician Survey was administered to a sample of physicians across the U.S., permitting estimates at the national level.

The HSC Health Tracking Physician Survey's predecessors, the CTS Physician Surveys, were administered using computer-assisted telephone interviewing to a stratified random sample of physicians in the 60 CTS sites and, in the first 3 CTS rounds, to an independent national sample of physicians, referred to as the "national supplement." The 2008 Health Tracking Physician Survey used a stratified random sampling design (similar to the earlier national supplement sample), and the site-base sample was dropped. The survey was administered by mail instead of telephone.

#### 2.1. THE PHYSICIAN SURVEY SAMPLE

The target population was based on information provided by the AMA Masterfile (which includes both AMA members and nonmembers). The AMA Masterfile includes licensed allopathic physicians and osteopathic physicians who obtained graduate training in allopathic medical schools or were identified on state licensing boards. The AMA Masterfile contains the majority of osteopathic physicians listed in the American Osteopathic Association (AOA) listing of osteopathic physicians. Unlike prior CTS surveys, we did not supplement the AMA Masterfile with observations from the AOA Masterfile. This was done to lower costs and because only 0.5% of sampled physicians in the 2004-05 CTS survey were listed in the AOA Masterfile but omitted from the AMA Masterfile.

#### 2.1.1. Eligible Physicians

To meet the initial eligibility criteria for sampling, physicians in the frame must have 1) completed their medical training (residents, interns, and fellows were considered to be still in training and were excluded from the sample), 2) practiced within the 50 states and the District of Columbia, and 3) provided direct patient care for at least 20 hours per week. The direct patient care criterion resulted in the exclusion of inactive or retired physicians and physicians who were not based in offices or hospitals (such as teachers, administrators, and researchers).

The following types of physicians were designated as ineligible for this survey and were removed from the frame:

- Specialists in fields that do not focus primarily on direct patient care<sup>5</sup>
- Federal employees
- Graduates of foreign medical schools who are licensed to practice in the United States only temporarily

#### 2.1.2. Stratification of Physician Sample Frames

After constructing the list of eligible physicians, each physician was then classified as either a primary care physicians (PCP) or a specialist, based on information contained in the Masterfile. PCPs were defined as physicians with a primary specialty of family practice, general practice, general internal medicine, internal medicine/pediatrics, or general pediatrics. All others with survey-eligible specialties were classified as specialists.

The physician's location for sampling purposes was determined by the AMA preferred mailing address. The population for the sample included physicians in the 50 states and the District of Columbia. The states were divided into 10 geographic strata. The strata were defined to match those used in the four rounds of the CTS physician survey, with the addition of Alaska and Hawaii in one stratum, and were used in prior physician surveys conducted for the AMA. The geographic regions are defined as follows:

- 1. Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
- 2. New York
- 3. Delaware, New Jersey, Pennsylvania, West Virginia
- 4. District of Columbia, Georgia, Maryland, North Carolina, South Carolina, Virginia
- 5. Alabama, Florida, Kentucky, Mississippi, Tennessee
- 6. Arkansas, Louisiana, Missouri, Oklahoma, Texas
- 7. Indiana, Michigan, Ohio
- 8. Illinois, Iowa, Minnesota, Wisconsin

<sup>&</sup>lt;sup>5</sup> For example: radiology (including diagnostic, nuclear, pediatric, neuro-, radiation oncology, radiological physics, vascular, and interventional); anesthesiology; pain management; pain medicine; palliative medicine; pathology (including anatomic, clinical, dermato-, forensic, neuro-, chemical, cyto-, immuno-, pediatric, radioisotophic, selective); medical toxicology; aerospace medicine and undersea medicine; allergy and immunology/diagnostic laboratory; bloodbanking/transfusion medicine; clinical and laboratory dermatological immunology; forensic psychiatry; hematology; legal medicine; medical management; public health and general preventive medicine; nuclear medicine; clinical pharmacology; sleep medicine; other specialty; unspecified specialty.

- 9. Arizona, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Oregon, Utah, Wyoming, Washington
- 10. Alaska, California, Hawaii

The 20 sampling strata were formed by crossing the ten regions by whether the physician was classified as a PCP or a specialist.

The goal of the sample allocation was to achieve the highest possible precision for national estimates. The design was based on a proportional allocation of the sample to PCPs and specialists.

#### 2.1.3. Physicians Excluded from the Survey

Some physicians thought to be eligible based on the sample frame information were later classified as ineligible based on screening telephone interviews or survey responses. This happened if it turned out that the physician was still in training, provided direct patient care for less than 20 hours per week, practiced in an excluded specialty, was a federal employee, or was deceased. These ineligible physicians are not included on the file.

#### 2.2. SURVEY CONTENT

Table 2.1 shows the topics covered by the survey in more detail. Detailed documentation for the survey instrument is provided in Appendix A.

TABLE 2.1  $\label{eq:contents}$  CONTENTS OF THE 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY

Topic	Description		
Survey Eligibility			
Eligibility for survey	Resident or fellow		
	Federal employee		
	Less than 20 hours/week of direct patient care		
Satisfaction with Medicine			
Career satisfaction	Current level of satisfaction with overall career in medicine		
<b>Practice Characteristics</b>			
Physician Characteristics	Year began medical practice		
	Primary specialty		
Board Certification			
Practice description	Type/setting of practice		
	Number of physicians in main practice		
Ownership of practice	Respondent ownership		
	Other entities with ownership interest		
Financial incentives and competitive	Effect of financial incentives on quantity of services		
situation Competitive situation of practice			
Hours Worked and Patient Visits			
Weeks worked	Number of weeks practiced medicine in 2006		

Hours worked during last complete week of work	Hours spent in direct patient care during last complete week of work.			
week of work	Hours spent in administrative tasks and professional activities during last complete week of work.			
	Total hours spent in medically-related activities during last complete			
	week of work.			
	Number of patient visits in office and out-patient clinics, on hospital			
	rounds, and in nursing homes or patients' homes during last complete			
	week of work.			
Time allocation during a typical work	Time spent on e-mail communication with patients and their families.			
day	Time spent on telephone conversations with patients and their families.			
	Time spent on e-mail communication with physicians and other			
	clinicians.			
	Time spent on telephone conversations with physicians and other			
	clinicians.			
Reimbursement for communication activities	Whether reimbursed for each of the activities in preceding row.			
Charity care in the last month	Hours spent in charity care in the last month			
•	Location of charity care			
<b>Patient Characteristics</b>				
Case mix	Race/ethnicity of patients			
	Percentage of patients with chronic conditions			
	Percentage of patient with whom the physician has difficulty			
	communicating due to language differences			
Interpreter services	Provision of interpreter services			
	Languages provided			
Minority health education	Participation in activities addressing minority health issues			
Information Technology in Medicine	A			
Access to clinical IT in medical	Access to and frequency of use of IT capabilities:			
practice	Treatment guidelines			
	Decision support for diagnoses and treatment recommendations Preventive service and follow-up reminders			
	Patient reminders			
	E-mail exchange with patients			
	Patient notes			
	Test ordering and results viewing			
	Exchange of clinical data and images with other physicians			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy			
Hospital Care	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT			
Hospital Care Hospital characteristics	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors			
	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist			
Hospital characteristics	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists			
Hospital characteristics  Quality and Coordination of Patient C	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists  Care			
Hospital characteristics  Quality and Coordination of Patient C Care management	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists  Care  Effect of practice guidelines on practice of medicine			
Hospital characteristics  Quality and Coordination of Patient C	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists  Care  Effect of practice guidelines on practice of medicine  Adequate time to spend with patients			
Hospital characteristics  Quality and Coordination of Patient C Care management  Perceptions of ability to provide quality care	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists  Eare  Effect of practice guidelines on practice of medicine  Adequate time to spend with patients Providing high quality care to all patients			
Hospital characteristics  Quality and Coordination of Patient C Care management  Perceptions of ability to provide quality	Exchange of clinical data and images with labs, hospitals Patients' preferred language Identify drug interactions Information on formularies Write and transmit prescriptions to pharmacy Use of EMR Financial incentives tied to IT  System for reporting medical errors Percentage of hospitalized patients treated by a hospitalist Whether hospital ICU covered by intensivists  Care  Effect of practice guidelines on practice of medicine  Adequate time to spend with patients			

	Quality of care for chronic conditions		
	Patient demographics (race, ethnicity, preferred language)		
	Quality of care for minority patients		
	Patient lists or registries (e.g. lists of patients with specific		
	conditions, medications, etc.)		
	Participation in outside quality reporting programs		
Chronic Care	Treatment of select chronic conditions (asthma, diabetes, depression,		
	congestive heart failure)		
	Chronic care services		
	Written guidelines (in English and other languages)		
	Use of nurse care managers		
	Use of non-physician staff educators		
	Group visits		
Disease management	Patient participation in disease management programs		
	Perceptions of disease management program effectiveness		
Care Coordination	Knowledge of patient visits to other physicians		
Care Coordination	Frequency of communication between physicians surrounding referrals		
	and consultations.		
	How often patients are self-referred		
Inability to obtain needed services for	Inability to obtain:		
patients	Referrals		
patients			
	Hospital admissions		
	Outpatient mental health services		
	Interpreter services		
	Percentage of patients with prescription coverage governed by a		
	formulary		
Impact of patient cost sharing on	Impact of insured patients' out-of-pocket costs on:		
clinical decisions	Prescription of generic versus brand name drug		
	Diagnostic tests		
	Selection of out-patient versus in-patient care		
Limits to providing high quality care	Factors that pose a major/minor/no problem:		
	Inadequate time with patients		
	Patients' inability to pay		
	Health insurance rejections		
	Lack of specialists		
	Lack of timely reports from other physicians/facilities		
	Language/cultural barriers to communication		
	Patient non-compliance		
	Medical errors in hospitals		
Practice Acceptance of New Patients			
Acceptance of new patients	Degree of practice acceptance:		
ricespunes of new patients	New Medicare patients		
	New Medicaid patients		
	New privately-insured patients		
	Reasons practice no accepting all or most:		
	New Medicare patients		
Sources of Practice Revenue	New Medicaid patients		
	Dargantaga of practice revenue from Medicare		
Public programs	Percentage of practice revenue from Medicare		
3.6	Percentage of practice revenue from Medicaid		
Managed care	Percentage of practice revenue that is capitated/prepaid		
	Number of managed care contracts		
Medical Malpractice			
Malpractice concerns	Concerns about malpractice litigation risk		

	Changes in treatment behavior due to malpractice threat		
	Perception that reliance on clinical judgment versus technology in making		
	diagnoses is becoming riskier		
Medical Equipment and Hospital Ownership			
Medical equipment ownership/leasing	Practice ownership or leasing of medical equipment.		
Specialty hospital ownership	Location of equipment		
	Personal ownership or leasing of medical equipment		
	Practice ownership stake of a hospital		
	Personal ownership stake in hospital		
Compensation			
Physician compensation	Method of compensation (e.g. salaried, performance-adjusted payment,		
	etc.)		
	Bonus eligibility		
	Factors used by practice to determine compensation		
	Importance of factors in determining compensation		
Gifts and payments from drug, device,	Receipt of gifts or indirect payment		
or other medically-related companies	Value of goods and services received		
Income	Net income from practice of medicine in 2006		
	Percentage of net income based on productivity factors		
Personal Background			
Race/ethnicity	Hispanic origin		
,	Race		
Location	Location of primary practice		

#### 2.3. SURVEY ADMINISTRATION AND PROCESSING

The survey was administered completely by mail. As described earlier, all physicians were selected from a list frame obtained from the AMA. The survey was fielded between February and October 2008.

The total number of completed interviews was 4,720 with a weighted response rate among eligibles of 61.9 percent. Physicians were sent advance letters from the Robert Wood Johnson Foundation and were offered either a \$50 or \$75 honorarium for participating in the survey. More detailed information about survey methods is available in the HSC 2008 Health Tracking Physician Survey Methodology Report (Technical Publication No. 77) available at <a href="http://hschange.org/CONTENT/1085/">http://hschange.org/CONTENT/1085/</a>.

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<sup>&</sup>lt;sup>6</sup> The 2008 Physician Survey included an embedded experiment to test the impact of differing levels of monetary incentive and follow-up efforts on response rates and survey costs. Results from the experimental sample were used to implement the optimal incentive and follow-up protocol for the remainder of the survey sample. This was determined to be \$75 accompanied by follow-up phone calls. More information about the experiment and results can be found in the 2008 Physician Survey Methodology Report (HSC Technical Publication No. 77).

#### **CHAPTER 3** USING THE PHYSICIAN SURVEY RESTRICTED USE FILE

#### 3.1 WEIGHTS

Because of changes in the sample design (i.e. dropping the site-based framework) from the previous CTS series, the 2008 HSC Health Tracking Physician Survey accommodates national estimates only. This simplifies sample and weight selections as compared to the CTS surveys. There is only one weight variable, WEIGHT. This weight should be used in all analyses, even those limited to physician subgroups or geographic-based subgroups. The weight adjusts for probability of selection and differential survey nonresponse.

#### 3.2 DERIVING APPROPRIATE VARIANCE ESTIMATES

Standard statistical software routines assume that the sample of data being analyzed was collected using simple random sampling (SRS). However, earlier CTS surveys used complex sample designs, involving stratification, clustering, and oversampling that resulted in samples that were less "efficient" than those of equal size collected using SRS. Use of standard statistical routines not designed for complex samples would result in variance and standard errors estimates that were substantially too small.

Departures from a simple random sample design result in a "design effect" (Deff), which is defined as the ratio of the sampling variance (Var) given the actual survey design to the sampling variance of a hypothetical simple random sample (SRS) with the same number of observations. Thus:

$$Deff = \frac{Var_{actual\ design\ with\ n\ cases}}{Var_{SRS\ with\ n\ cases}}$$

 $Deff = \frac{Var_{actual\ design\ with\ n\ cases}}{Var_{SRS\ with\ n\ cases}}$  A design effect equal to one indicates that the design did not increase or decrease the sampling variance relative to a simple random sample. A design effect greater than one indicates the design increased the sampling variance; that is, it caused the estimate to be less precise. A design effect of less than one means that the design decreased the sampling variance; that is, it made the estimate more precise. The standard error of an estimate can be expressed as the standard error from a simple random sample with the same number of observations, multiplied by the square root of the design effect.

The 2008 Health Tracking Physician Survey sample design is very close to a SRS. There was no oversampling of physicians and the use of 20 strata based on geography and specialty can make estimates more precise than SRS. However, variance in weights, primarily due to differential survey non-response, can result in *Deffs* greater than one.

We calculated *Deffs* for 88 means and proportions using both the total sample and specialty subgroups. In general, estimated *Deffs* were close to one, but ranged from .88 to 1.07. The mean and median were both equal to 1.02. Because other variables or subgroups might produce

different results, we recommend use of specialized software programs such as SUDAAN when using the 2008 Physician Survey, or complex survey routines that are available in more commonly used software packages such as SAS or Stata. Appendix C provides examples of how to set up such programs for the 2008 physician survey. In lieu of using software designed to accommodate complex surveys, users are recommended to increase their variance estimates by 3% when calculating significance levels. Three percent instead of 2% was chosen in order to be conservative. A three percent increase in variance is equivalent to a 1.5% increase in standard errors.

#### 3.2.1 Design Parameters

Unlike the CTS surveys, for which only SUDAAN had the capability to fully accommodate the sample design, the 2008 Health Tracking Physician Survey's design can be accommodated in complex survey routines found in other software packages such as Stata and SAS.<sup>7</sup> The key information required is that the sample is selected with replacement and that it is stratified. Typically, to obtain unbiased variance estimates using complex survey routines, you will need to use the WEIGHT variable along with the variable identifying sample strata (STRATA). Appendix C provides sample setups using SUDAAN, STATA, and SAS.

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Schaefer, Elizabeth, et al., Comparison of Selected Statistical Software Packages for Variance Estimation in the CTS Surveys, Technical Publication No. 40, Center for Studying Health System Change, Washington, D.C. (May 2003).

## CHAPTER 4 VARIABLE CONSTRUCTION AND EDITING

The 2008 HSC Health Tracking Physician Survey Restricted Use File contains three types of variables: unedited variables, edited variables, and constructed variables created from edited or unedited variables.<sup>8</sup>

This chapter provides a general description of the types of constructed and edited variables in the file, as well as additional details on selected variables. The information in this chapter supplements the information provided in the "Description" field of the file's codebook. Users are encouraged to review this information along with the questionnaire provided in Appendix A for a better understanding of the questionnaire structure, skip patterns, and other characteristics of the variables reported on the file.

#### 4.1. EDITED VARIABLES

The 2008 HSC Health Tracking Physician Survey data were collected via mail-based questionnaire. This section describes the editing that followed the data collection, including logical editing, imputation of missing values, and editing for confidentiality. Verbatim text responses were also reviewed and coded.

#### 4.1.1. Logical Editing

Logical editing was performed to resolve inconsistencies among related variables and to resolve skip pattern inconsistencies. For example, question 11 asks physicians to estimate the number of hours spent in various medically-related activities during their last complete week of work. This includes hours in direct patient care (HRSPAT) and hours in administrative tasks and other professional activities (HRSADM). The respondent is then instructed to record the sum of these two values as the total hours in medically-related activities (HRSMED). Whether because the directions were overlooked or the question misinterpreted, there were cases where HRSMED was not equal to the sum of HRSPAT and HRSADM. Depending upon the degree and direction of the inconsistency, HRSMED was changed to reflect the sum of the first two, or the sum of all three variables (in cases where the respondent appeared to treat the three categories as being mutually exclusive).

Logical editing also included review and resolution of inconsistencies after data imputation was performed.

<sup>&</sup>lt;sup>8</sup> In general, unedited variables are those that contain the original response to a single questionnaire item.

#### 4.1.2. Imputation of Missing Values

Missing values for selected variables were imputed using weighted sequential hot-deck imputation. Variables were selected for imputation according to degree of nonresponse and analytic importance. Table 5.1 lists the variables selected for imputation and their nonresponse rates.

An imputation flag is included for variables with imputed values. A value of "1 Hotdeck imputation" for the imputation flag indicates that missing values of the corresponding variable were imputed.

TABLE 4.1.

IMPUTED VARIABLES ON THE 2008 HSC HEALTH TRACKING PHYSICIAN SURVEY RESTRICTED USE FILE

Description	Variable	Item
	Name	Nonresponse
		Rate
<b>Practice Characteristics</b>		
Main practice type	PTYPE	< 1% (.1%)
Main practice setting	SETTING	< 1% (.4%)
Ownership status	OWNPR	< 1% (.6%)
Ownership interest, other physician	PHYSOWN	6.4%
Ownership interest, another practice	PRACOWN	6.4%
Ownership interest, hospital	HOSPOWN	6.4%
Ownership interest, insurance company	INSROWN	6.4%
Ownership interest, medical school	MSCHOWN	6.4%
Ownership interest, other	OTHROWN	< 1% (.8%)
Ownership interest, government entity	GOVENTY	6.4%
Ownership interest, non-profit organization	NPRFORG	6.4%
Ownership interest, for profit organization	PRFTORG	6.4%
Ownership interest, non-physician practice partners	NPHYPRC	6.4%
Number of physicians, fewer than 100?	NPHYCAT	1.6%
Number of physicians	NPHYS	2.8%

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<sup>&</sup>lt;sup>9</sup> In sequential hot-deck imputation, persons with missing values, or "recipients," are linked to persons with available values, or "donors," to fill in the missing data. The donors and recipients are first classified into strata and then sorted within each strata using classification/sort variables such as gender, PCP status, and year when physician began practicing medicine. (The number of strata is limited by a minimum donor-to-recipient ratio that must be satisfied within each stratum). Donors are then assigned to recipients with similar characteristics within their stratum. In weighted hot-decking, donor and recipient weights are used to help determine the assignment of donors to recipients so that means and proportions calculated using the imputed data will equal means and proportions obtained using only donor data. In general, weighted hot-decking was performed for data with more than 5 percent missing values.

<b>Hours Worked and Patient Visits</b>			
Weeks worked	WKSWRK	< 1% (.8%)	
Hours worked in patient care	HRSPAT	< 1 % (.8%)	
Hours worked in administrative/professional tasks	HRSADM	4.6%	
Hours worked in all medical activities	HRSMED	4.8%	
Office visits	OFFCOPV	1%	
Hospital visits	HOSPV	< 1% (.9%)	
Nursing home visits	NURSHMV	< 1% (.9%)	
Hours worked in charity care	HRFREE	1.5%	
Patient Characteristics			
Percent of patients who are African American or black	BLCKPT	< 1% (.8%)	
Percent of patients who are Hispanic or Latino	HISPPT	< 1% (.9%)	
Percent of patients who are Asian or Pacific Islander	ASIAPT	< 1% (.8%)	
Percent of patients who are Native American or Alaska	NATVPT	< 1% (.8%)	
Native			
Percent of patient who have a chronic medical condition	CHRNPT	3.2%	
<b>Quality and Coordination of Patient Care</b>			
Percent of patient with prescription drug coverage	FORMLRY	3.5%	
involving a formulary			
<b>Practice Acceptance of New Patients</b>			
Accepting new Medicare patients	NWMCARE	4.2%	
Accepting new Medicaid patients	NWMCAID	3.2%	
Accepting new privately-insured patients	NWPRIV	2%	
Sources of Practice Revenue			
Percent revenue from Medicare	PMCARE	5.6%	
Percent revenue from Medicaid	PMCAID	4.7%	
Percent capitated revenue	PCAPREV	9%	
Number of managed care contracts	NMCCON	3.9%	
Compensation			
Net income	INCCAT	4.4%	

#### 4.1.3. Editing for Confidentiality

Data in the restricted Use File have not been manipulated or edited for confidentiality.

#### 4.1.4. Editing Verbatim Responses

For several questionnaire items, respondents were allowed to provide "other" verbatim responses when none of the existing response categories seemed to apply. Although these verbatim responses are excluded from the Restricted Use File, many of them were reviewed and coded into an appropriate existing or new categorical value.

#### 4.2. CONSTRUCTED VARIABLES

Constructed variables include the following:

- Weights and other sampling variables
- Other variables constructed for analytical value. These are variables that combine one or more original question item for analytic convenience.

Constructed variables are indicated in the file's codebook by a value of "N/A" (Not Applicable) in the "Question" field. Information on how they were constructed appears in the "Description" field. Table 4.2 contains additional background on some of the more complex constructions.

#### 4.3. IDENTIFICATION, GEOGRAPHIC, AND FRAME VARIABLES

Not all variables on the Restricted Use File were obtained directly from survey respondents via the questionnaire. Additional variables include the physician identifier and other administrative variables relating to demographic information from the sample frame.

- The physician identifier variable on the Restricted Use File is called PHYSIDX.
- The following variables contain demographic information from the sample frame from the American Medical Association (AMA): MDDO (MD or osteopath), IMGSTAT (foreign medical school graduate), GRAD\_YR (year of graduation from medical school), GENDER (gender), and BIRTH (year of birth).

The Restricted Use File includes the following geographic identifiers:

- STATE is the state code for the physician's practice location.
- FIPSCODE is the state and county code for the physician's practice location.
- CENREG is the Census region for the physician's practice location.
- CENDIV is the Census division for the physician's practice location.
- UICS is the type of metropolitan in which the physician practices (large metro, small metro, various types of non-metro areas). UICS is derived from the U.S. Department of Agriculture's 2003 "urban influence codes." The codes are based on population and commuting data from the 2000 Census.

#### 4.4. ADDITIONAL DETAILS ON SELECTED SURVEY VARIABLES

Table 4.2, organized by questionnaire section, provides "helpful hints" about variables (singly or in sets), discusses a variable's relationship with other variables, and suggests when to use a specific variable. This information supplements the details contained in the file's codebook.

#### TABLE 4.2.

# ADDITIONAL INFORMATION ON SURVEY QUESTIONS BY QUESTIONNAIRE SECTION

Variable	Additional Information			
Practice (	tice Characteristics			
YRBGN	YRBGN comes from question 2, which asks for the year that the physician began			
	medical practice.			
	For physicians who did not respond to this question or for whom his/her medical school graduation year occurred after the reported value for YRBGN, YRBGN was reset to graduation year + 3 for primary care physicians and graduation year + 5 for specialists. If graduation year was unknown, then YRBGN was set to be BIRTH + 30 for primary care physicians and BIRTH + 32 for specialists.			
PCP	PCP is a constructed flag variable that indicates whether the physician is a primary care physician (PCP=1) or a specialist (PCP=0). The variable is constructed based on the response to question 3 and may not coincide with the sampling stratum, which is based on the specialty listed in the sample frame.			
	PCP=1 if the physician's specialty (PRIMSPC) is one of the following: Family Practice (4) General Practice (5) Pediatrics (6) Internal Medicine (9) Adolescent Medicine (21) Geriatric Medicine (30) Internal medicine/urgent care (37) Osteopathic manipulation (45)			
	Pediatric Internal Medicine (67)			
SPEC	SPEC is a seven-level constructed variables, respectively, based on responses to question 3 (physician's primary specialty). The grouping of specialties is as follows:  1: General Internal Medicine Internal Medicine (9)  2: Family/General Practice Family Practice (4)			
	Geriatric Medicine (30) General Practice (5)			
	Internal medicine/urgent care (37) Osteopathic Manipulation (45)			
	Pediatric internal medicine (67)			
	3: Pediatrics Pediatrics (6) Adolescent Medicine (21) Pediatric Internal medicine (67)			
	4: Medical Specialties			

Cardiovascular (1) Phlebology (47)Dermatology (2)

Physical medicine and rehabilitation (48)

Emergency medicine (3) Preventive medicine (50)

Gastroenterology (7) Pulmonology critical care medicine (51)

Neurology (10)

Oncology (12)

Pulmonology (17)

Allergy (22)

Allergy & immunology (23)

Radiation oncology (52)

Rheumatology (54)

Sleep medicine (55)

Sports Medicine (56)

Wound Care (60)

Padiatria and interpretation and interpretation

Endocrinology(27) Pediatric cardiology (61)

Genetic medicine (29)

Hematology & oncology (33)

Hospitalist (34)

Infectious disease (35)

Internal medicine Specialist (36)

Neonatal/perinatal medicine (38)

Pediatric emergency medicine (62)

Pediatric endocrinology (63)

Pediatric gastroenterology (64)

Pediatric hematology/oncology (65)

Pediatric infectious disease (66)

Pediatric medical specialist (68)

Neonatology (39)
Pediatric nephrology (69)
Pediatric neurology (70)
Pediatric orthopedic 72)
Pediatric pulmonology (74)
Palliative medicine (46)
Pediatric rheumatology (75)

5: Surgical Specialties

General surgery (8) Hand surgery (32)
Ophthalmology (13) Neurosurgery (41)

Orthopedic surgery (14) Oral & maxillofacial surgery (44)

Otolaryngology (15)
Urology (18)
Cardiothoracic surgery (24)
Colon & rectal surgery (25)
Cosmetic surgery (26)
ENT (28)
Plastic surgery (49)
Transplant surgery (58)
Trauma surgery (59)
Pediatric neurosurgery (71)
Pediatric surgery (76)
Vascular surgery (77)

6: Psychiatry 7: Obstetrics/Gynecology

Psychiatry (16) OBGyn (11) Addiction medicine (20) Gynecology (31)

Pediatric psychiatry (73)

Note: Pediatric Internal Medicine appears in both 1:General Internal Medicine and 3: Pediatrics. If the AMA specialty code (SPCLTY) was IM (Internal Medicine), then SPEC was coded as 1. If SPCLTY was MPD (Internal medicine/pediatrics) or PD (Pediatrics) then SPEC was coded as 3.

#### **Hours Worked and Patient Visits**

HRSMED

HRSMED is an edited/imputed variable that defines the number of hours (during the past week) spent in all medically-related activities. It is based on responses to questions 11a (HRSPAT), 11b (HRSADM), and 11c (HRSMED). It should be used with caution as respondents did not always interpret the HRS questions consistently. The editing rules were as follows:

If the reported number of hours spent in all medically-related activities (HRSMED) equals the sum of hours in administrative task and hours in direct patient care, then the edited HRSMED=HRSMED

Otherwise, if HRSMED is not equal to the sum of the other two, and if both HRSPAT and HRSADM are greater than or equal to 0, then perform the following test:

If the sum of HRSPAT and HRSADM exceeds the value of HRSMED by more than 10 hours, assign the edited HRSMED to be the sum of all three (HRSPAT+HRSADM+HRSMED). In this case it is assumed that the respondent interpreted HRSMED to be mutually exclusive with the other two, i.e., all other non-patient and non-administrative tasks.

If the sum of HRSPAT and HRSADM exceeds the value of HRSMED by less than 10 hours, the edited HRSMED takes the value HRSPAT + HRSADM. Here, it is presumed that the respondent made an error in calculating the sum.

Finally, in all other cases, edited HRSMED=HRSMED.

There are 209 cases where HRSMED was missing in the raw data, which were either imputed or edited. Additionally, 716 cases were edited after imputation. Because of the high degree of editing, we recommend caution in utilizing this variable.

# CHAPTER 5 FILE DETAILS

This chapter provides an overview of the file content and technical specifications for programmers. It also describes variable naming and coding conventions that were used on the file and that appear in the file's codebook.

#### 5.1. FILE CONTENT AND TECHNICAL SPECIFICATIONS

The 2008 HSC Health Tracking Physician Survey Restricted Use File contains 4,720 person records. The unique record identifier and sort key is the variable PHYSIDX. Variables are positioned on the file in the following order:

- A unique physician identifier
- Variables obtained from the sample frame (AMA Masterfile)
- Variables from each section of the Physician Survey questionnaire. Variables are ordered within each section by related questionnaire item number
- Weight variable

The Restricted Use File is provided as an ASCII-formatted file with the following technical specifications:

File name: HTS08PR1.TXT

Number of observations: 4,720 Number of variables: 294 Logical record length: 634 bytes

The file contains a two-byte carriage return/line feed at the end of each record. When you are converting to a PC-SAS file, use the LRECL option to specify the record length to avoid the default PC-SAS record length. If the RECFM=V option is used, the LRECL option must be specified as the logical record length (634). If RECFM=F is used, the LRECL value must be specified as the logical record length plus two (636). Note that if the RECFM option is omitted, then the default option of RECFM=V will be used, and LRECL must be specified as the logical record length (634). When you are converting to an SPSS file, use the "FIXED" option of the DATA LIST command, and read values according to column location specified by the column position after each variable name.

The record layout for this file is provided in the file's codebook.

#### **5.2. VARIABLE NAMING CONVENTIONS**

In general, a variable name reflects the content of the variable. For the following groups of variables, a naming convention was used to provide additional information on variable content:

- Imputation Flags. These flags indicate whether a record has an imputed value for the corresponding variable. The flag variable has the same name as the variable it describes, and includes an underscore prefix, "\_". When reading the data into SPSS, imputation flags contain the prefix "I" because SPSS does not recognize the "\_" character. For example, \_PMCARE (or IPMCARE) is the imputation flag corresponding to the variable PMCARE. Refer to Chapter 5 for more information on imputation and other types of editing procedures used on the file.
- *Masked Variables.* With some exceptions, names of variables that were masked for confidentiality reasons end with the value "X." The variable descriptions contained in the file's codebook indicate whether the variable was masked and provide brief details as to the type of masking performed. Variables ending in "X" that are not masked for confidentiality purposes include the sixteen variables regarding personal use of information technology functions (IT\_TRTX, ITDCSNX, etc.), receipt of free drug samples from drug, device, or other medically-related companies (FREERX), and receipt of gifts from such companies as a result of prescribing practices (GIFTRX).

#### **5.3. VARIABLE CODING CONVENTIONS**

The following coding conventions are used on the file:

- -1 Inapplicable Question was not asked because of skip pattern (or physician's response to the question indicated that it was not applicable).
- -8 Don't Know Question was asked and respondent did not know the answer.
- -9 Not Ascertained Value was not assigned for any other reason.

#### **REFERENCES**

Schaefer, Elizabeth, et al., *Comparison of Selected Statistical Software Packages for Variance Estimation in the CTS Surveys*, Technical Publication No. 40, Center for Studying Health System Change, Washington, D.C. (May 2003).

*HSC 2008 Health Tracking Physician Survey Methodology Report.* Technical Publication No. 77, Center for Studying Health System Change, Washington, D.C.

2008 HSC Health Tracking Physician Survey Public Use File: User's Guide. Technical Publication No. 78, Center for Studying Health System Change, Washington, D.C. (January 2010).

HSC Technical Publications are available on the HSC Web site. www.hschange.org

# **APPENDIX A** 2008 HSC Health Tracking Physician Survey Instrument

Note: The following document refers to the survey as the Community Tracking Study Round Five Physician Survey rather than the HSC Health Tracking Physician Survey. Decisions

regarding the name change were made after these materials were published.

#### Label

# COMMUNITY TRACKING STUDY

# SURVEY OF PHYSICIANS

#### **CONDUCTED BY**





#### **About this survey**

The Community Tracking Study (CTS) Survey of Physicians is sponsored by The Robert Wood Johnson Foundation (RWJF). The Center for Studying Health System Change (HSC), an independent, nonpartisan research organization, is conducting the study on behalf of RWJF.

This survey asks about your practice and your views about the challenges facing physicians today. The questionnaire takes about 20 to 30 minutes to complete. Information you provide will contribute to analyses on topics of importance to physicians and policy makers. The enclosed fact sheet includes a sample of articles published from previous rounds of this survey, on topics such as whether physicians are accepting Medicare patients, whether pay-for-performance programs could work, and the consequences of physicians' career dissatisfaction.

Your participation is voluntary and greatly appreciated. However, not responding could seriously affect the accuracy of final results, and your point of view may not be adequately represented in the survey findings.

Your identifying information will remain confidential and will not be redistributed. Your answers will be aggregated with those of thousands of other physicians and only used for statistical analyses. Access to all data is tightly restricted. Survey data are made available to researchers only under strict data confidentiality procedures consistent with Federal guidelines. Researchers may request data through the Inter-university Consortium for Political and Social Research, which maintains an archive of survey data for research and instruction. Some HSC analyses may involve linking your survey data to your practice's claims data (such as Medicare claims or other insurer claims) obtained in accordance with the Health Insurance Portability and Accountability Act of 1996 and other strict Federal privacy regulations. In accordance with procedures established during prior rounds of the CTS Physician's Survey, you, your practice, and your patients will NEVER be identifiable from publicly released reports or analyses.

If you have any questions, please call Ms. Jenné Johns at The Robert Wood Johnson Foundation at 877-843-7953 ext. 5788.

Please return your completed questionnaire in the enclosed postage-paid envelope. If another envelope is used, please send to:

Center for Studying Health System Change c/o WESTAT 1650 Research Boulevard Rockville, MD 20850-3195

#### **INSTRUCTIONS**

Your answers are important to us. Following the instructions below will allow your answers to be correctly recorded

- Please put an "X" to mark your answer like this ⋈.
   Fill in only one answer unless the instructions are to "Mark all that apply."
- Use a blue or black ball-point pen. Please do not use a pencil, your answers will not be recorded.
- If you make a mistake and fill in the wrong box, please draw a line through the incorrect choice, like this  $\nearrow$ . Then, fill in the correct box.
- If you write an incorrect answer, please draw a line through the incorrect answer and write the correct answer next to it.
- When filling in numbers, print each number clearly. Please avoid touching the sides of the boxes; fill in the boxes like this:
   3
   5
   9

#### SURVEY ELIGIBILITY

	SURVEY ELIGIBILITY			
A. Are you currently a resident or fellow?				
	☐ Yes→	Do not continue. Please return the questionnaire in the enclosed envelope and we will remove your name from our list.		
	$\square$ No $\rightarrow$ G	о то в		
B.	B. Are you currently a full-time employee of a Federal agency, such as the U.S. Public Health Service, Veterans Administration, or a military service?			
	☐ Yes→	Do not continue. Please return the questionnaire in the enclosed envelope and we will remove your name from our list.		
	$\square$ No $\longrightarrow$ G	о то с		
C.	-	ently provide direct patient care for at least 20 hours a week? practices if you work in more than one practice.		
	Direct patient care includes seeing patients, performing surgery, and time spent on patient record-keeping, patient-related office work and travel time connected with seeing patients. It does not include time spent in training, teaching, or research, any hours on-call when not actually working, and travel between home and work the beginning and end of the work day.			
	☐ Yes → GO TO Q1			
	□ No→	Do not continue. Please return the questionnaire in the enclosed envelope and we will remove your name from our list.		

#### SATISFACTION WITH MEDICINE

1.	Thinking very generally about your satisfaction with your overall career in medicine, would you say that you are currently				
	☐ Very satisfied				
	☐ Somewhat satisfied				
	☐ Neither satisfied nor dissatisfied				
	☐ Somewhat dissatisfied				
	☐ Very dissatisfied				
	PRACTICE CHARA	CTE	RISTICS		
	THACTICE CHARA	•			
2.	In what year did you begin medical practice after co	mple	ting your undergraduate		
	and graduate medical training?				
	A residency or fellowship is considered graduate me	dica	l training.		
	Year				
3.	We define your primary specialty as the one in which	ı you	spend the most hours.		
	What is your primary specialty?				
	MARK (X) ONE ANSWER				
	Cardiovascular Diseases		Obstetrics and gynecology		
	Dermatology		Oncology		
	Emergency Medicine		Ophthalmology		
	Family Practice		Orthopedic Surgery		
	General Practice		Otolaryngology		
	General Pediatrics		Psychiatry		
	Gastroenterology		Pulmonology		
	General Surgery		Urology		
	General Internal Medicine		Other Specialty		
	☐ Neurology		(Please describe your specialty below)		
4.	Are you board-certified in your primary specialty?				
<b></b> -	Yes				
	□ No				

COMMUNITY TRACKING STUDY SURVEY OF PHYSICIANS

5.	Please check the box that best describes where you work. If you work in more than one practice, check the one where you work the most hours.
	MARK (X) ONE ANSWER
	☐ A solo practice → GO TO Q6
	☐ A two physician practice → GO TO Q6
	☐ A group practice with three or more physicians → GO TO Q6
	☐ A group or staff model HMO → GO TO Q6
	☐ A community health center → GO TO Q6
	☐ A hospital run by state, county, or city government → GO TO Q5a
	☐ A hospital run by a private for-profit or non-profit organization → GO TO Q5a
	☐ A medical school or university (private or government) → GO TO Q5a
	Some other setting (Please describe)
	5a. If you work in a hospital, medical school, or university, in which of the following settings do you spend most of your time seeing patients?
	Office practice owned by the hospital, medical school, or university
	On hospital staff
	☐ In the emergency room
	☐ In a hospital or medical school clinic
	Somewhere else (Describe)
6.	This question is about your main practice, that is, the business or organization that compensates you. In your main practice, are you a full owner, a part owner (e.g., with one or more other physicians), an employee with no ownership, or an independent contractor?
	☐ Full owner → GO TO Q7
	☐ Part owner → GO TO Q6A
	☐ Employee (Not an owner) → GO TO Q6a
	☐ Independent contractor → GO TO Q8

	If you are a part owner or employee, do any of the following have an ownership interest in your main practice? Check all that apply:							
	Other physician(s) in the practice							
	Another physician practice							
	A hospital or hospital group							
	☐ Insurance company, health plan or HMO							
	Medical school or university							
	Other (specify)							
7.	ncluding yourself, how many physicians are in your main practice?							
	LEASE INCLUDE ALL LOCATIONS OF THE PRACTICE.							
	☐ 100 or fewer physicians → How many?							
	More than 100 physicians							
8.	On balance, do the overall personal financial incentives in your practice favor reducing services of individual patients, favor expanding services to individual patients, or favor neither?							
	MARK (X) ONE ANSWER							
	Reducing services to individual patients							
	Expanding services to individual patients							
	Favor neither							
9.	hinking about your practice specifically, how would you describe the competitive situation our practice faces?							
	By competition among physicians, we mean the pressure to undertake activities to ttract and retain patients.							
	MARK (X) ONE ANSWER							
	Very competitive							
	Somewhat competitive							
	Not at all competitive							
	HOURS WORKED AND PATIENT VISITS							
10.	approximately how many weeks did you practice medicine in 2006?							
10.								
	xclude time missed due to vacation, illness, family leave, military service, professional conferences, nd other absences.							
	Weeks practicing medicine in 2006							

11. During your LAST COMPLETE WEEK OF WORK, approximately how many hours did you spend in all medically-related activities?														
Please record all time spent in direct patient care in (a) and in other medically-related activities (e.g., administrative tasks and professional activities) in (b). Record the sum of (a) and (b) in total hours (c). Direct patient care includes seeing patients, performing surgery, and time spent on patient record-keeping, patient-related office work and travel time.  Your best estimate is fine.														
								a	Hours in direct patient care					
								b. Hours in administrative tasks and professional activities						
С.	Total hours in medically-related activities	es												
12. During your LAST COMPLETE WEEK OF WORK, how many patient visits did you personally hav each of the following settings? Please count as one visit each time you saw a patient.														
Your b	pest estimate is fine.													
Visits in the office and out-patient clinics														
Visits on hospital rounds														
Visits in nursing homes and patients' homes														
3. During a TYPICAL WORK DAY, how much time do you spend on each of the following activities?  MARK (X) ONE ANSWER FOR EACH ITEM														
		None	Less than a half hour	1/2 to 1 hour	1-2 hours	More than 2 hours								
	E-mail communications with patients and heir families													
1	Felephone conversations with patients and heir families													
	E-mail communications with physicians and other clinicians													
1	Felephone conversations with physicians and other clinicians													

		Reimbursed	Not Reimbursed	Unsure if Reimburse
a.	E-mail communications with patients and their families			
b.	Telephone conversations with patients and their families			
C.	E-mail communications with physicians and other clinicians			
d.	Telephone conversations with physicians and other clinicians			
	Hours spent providing charity care  None → IF NONE, GO TO Q16  Where do you typically provide charity care?  MARK (X) ONE ANSWER			
	☐ In your main practice			
	On-call or at a hospital emergency department			
	On-call or at a hospital emergency department  In another practice or clinic			
	On-call or at a hospital emergency department			

# PATIENT CHARACTERISTICS

16. About what percentage of y	our patients belong	to the follow	ring groups?
Your best estimate is fine. If you check the box instead of record	-	s in a group,	
	Record Percei	ntage	
a. African-American or Black		% □ F	ew or None
b. Hispanic or Latino		% □ F	ew or None
c. Asian or Pacific Islander		% □ F	ew or None
d. Native American or Alaska N	lative	% □ F	ew or None
e. Has a chronic medical cond	ition	% □ F	ew or None
17. About what percentage of y understanding because you			time speaking with or
Your best estimate is fine.			
Record Percentage	%		
18. Does your practice provide	interpreter services	for any non-	English languages?
MARK (X) ONE ANSWER			
☐ Yes → ANSWER Q18a			
$\square$ No $\rightarrow$ SKIP TO Q19			
☐ Do not have non-English sp	eaking patients→ SK	IP TO Q19	
18a. For which languages	does your practice p	provide interp	oreter services?
MARK (X) ALL THAT	APPLY		
Spanish			
Portuguese			
Chinese			
Other			
Other			
19. Have you ever attended any Medical Education activitie (such as cultural competen	s that discuss impro		
Yes No	oe daniliy):		

## **INFORMATION TECHNOLOGY IN MEDICINE**

The next question is about the use of computers and other forms of information technology, such as hand-held computers, in diagnosing or treating your patients. For each of the following activities, please check whether or not computers or other forms of information technology are used in YOUR PRACTICE.

For each activity where information technology is used, indicate whether YOU PERSONALLY use the technology routinely, occasionally, or not at all.

	Tec Availab PRAC	Is Information Technology Available in YOUR PRACTICE for Activity?		IF YES, How often do YOU PERSONALLY use the technolog		
ACTIVITY	NO	YES	Routinely	Occasionally	Not at all	
CLINICAL PRACTICE:						
a. Obtain information about treatment alternatives or recommended guidelines		$\square \rightarrow$				
b. Obtain up-to-date decision support for diagnostic and treatment recommendations based on data about your patients and practice guidelines		□ →				
c. Generate reminders for clinicians about preventive services		$\square$ $\rightarrow$				
d. Generate reminders <i>for clinicians</i> about other needed patient follow-up		$\square$ $\rightarrow$				
e. Generate reminders to patients about preventive services		$\square$ $\rightarrow$				
f. Communicate about clinical issues with patients by e-mail		$\square$ $\rightarrow$				
PATIENT INFORMATION:						
Access patient notes, medication lists, or problem lists		$\square$ $\rightarrow$				
b. Order laboratory, radiology, or other diagnostic tests		$\square$ $\rightarrow$				
c. View results of laboratory, radiology, or other diagnostic tests		$\square$ $\rightarrow$				
d. Exchange clinical data and images with other physicians		$\square$ $\rightarrow$				
e. Exchange clinical data and images with hospitals and laboratories		$\square$ $\rightarrow$				
f. Access information on patients' preferred language		$\square$ $\rightarrow$				
PRESCRIPTION DRUGS:						
a. Obtain information on potential patient drug interactions with other drugs, allergies, and/ or patient conditions		$\square$ $\rightarrow$				
b. Obtain information on formularies		$\square$ $\rightarrow$				
c. Write prescriptions		$\Box$ $\rightarrow$				
d. Transmit prescriptions to pharmacy		$\square \to$				

	Does your main practice use electronic medical records?
	MARK (X) ONE ANSWER
	Yes, all electronic
	Yes, part electronic and part paper
	☐ No, all paper
	☐ Don't know
22.	Does your main practice receive any financial incentives from health plans and other organizations that are tied to the types of information technology systems (e.g., electronic health records or electronic prescribing systems) it adopts?
	MARK (X) ONE ANSWER
	Yes
	□ No
	☐ Don't know
	HOSPITAL CARE
23.	Medical errors include events such as dispensing incorrect medication doses, surgical mistakes, or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?
23.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error
23.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?
23.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER
23.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER
23.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  No
24.	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  Yes  No  I do not admit patients  Don't know  Hospitalists are physicians whose primary professional focus is the general medical care of hospitalized patients. What percentage of your patients who were hospitalized last year had a hospitalist involved in their inpatient care?  IF YOU DID NOT ADMIT ANY PATIENTS TO A HOSPITAL IN THE LAST YEAR OR YOU ARE A PRACTICING
	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  Yes  No  I do not admit patients  Don't know  Hospitalists are physicians whose primary professional focus is the general medical care of hospitalized patients. What percentage of your patients who were hospitalized last year had a hospitalist involved in their inpatient care?
	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  Yes  No  I do not admit patients  Don't know  Hospitalists are physicians whose primary professional focus is the general medical care of hospitalized patients. What percentage of your patients who were hospitalized last year had a hospitalist involved in their inpatient care?  IF YOU DID NOT ADMIT ANY PATIENTS TO A HOSPITAL IN THE LAST YEAR OR YOU ARE A PRACTICING
	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  Yes  No  I do not admit patients  Don't know  Hospitalists are physicians whose primary professional focus is the general medical care of hospitalized patients. What percentage of your patients who were hospitalized last year had a hospitalist involved in their inpatient care?  IF YOU DID NOT ADMIT ANY PATIENTS TO A HOSPITAL IN THE LAST YEAR OR YOU ARE A PRACTICING HOSPITALIST, CHECK THE APPROPRIATE BOX FOR THAT RESPONSE.
	or errors in interpreting results of diagnostic tests. Does the hospital where most of your patients are treated have a system for reporting medical errors, in which the person reporting the error remains anonymous?  MARK (X) ONE ANSWER  Yes  No  I do not admit patients  Don't know  Hospitalists are physicians whose primary professional focus is the general medical care of hospitalized patients. What percentage of your patients who were hospitalized last year had a hospitalist involved in their inpatient care?  IF YOU DID NOT ADMIT ANY PATIENTS TO A HOSPITAL IN THE LAST YEAR OR YOU ARE A PRACTICING HOSPITALIST, CHECK THE APPROPRIATE BOX FOR THAT RESPONSE.

	care to all of my patients						
	b. It is possible to provide high quality						
	I have adequate time to spend with my patients during their office visits						
		Agree Strongly	Agree Somewhat	Disagree Somewhat	Disagree Strongly	Neither Agree nor Disagree	
	MARK (X) ONE ANSWER FOR EACH	ITEM	1	1			
27.	Please indicate your level of agreem		agreement wi	ith the follow	ing statemo	ents.	
	☐ Unaware of guidelines that apply						
	<ul><li>✓ Very small</li><li>✓ No effect</li></ul>						
	☐ Venuemall						
	☐ Moderate						
	Large						
	☐ Very large						
	MARK (X) ONE ANSWER						
	If you are unaware of formal, written guidelines that apply to your practice, check the last box.						
26.	26. How large an effect does your use of <i>formal, written</i> practice guidelines, such as those generated by physician organizations, insurance companies, HMOs, or government agencies, have on your practice of medicine?						
	QUALITY AND COORDINATION OF PATIENT CARE						
	☐ I am a practicing intensivist						
	I did not admit patients to a hospital i	in the last ye	ear				
	□ No						
	Yes						
	IF YOU DID NOT ADMIT ANY PATIENTS INTENSIVIST, CHECK THE APPROPRIAT			_	OU ARE A F	PRACTICING	
	25. Intensivists are physicians who are board certified to care for critically ill patients in settings such as medical intensive care units. Does the hospital where you admit the greatest number of your patients have intensive care units that are always covered by intensivists?						
25.				_	-	_	

28. Please indicate whether or not you receive the following types of reports for your own patients or for the practice as a whole. These reports could be generated by your main practice or by other organizations, such as insurance companies or hospitals.

# MARK (X) ONE ANSWER FOR OWN PATIENTS AND MARK (X) ONE ANSWER FOR THE ENTIRE PRACTICE

	OWN PATIENTS		ENTIRE	PRACTICE
TYPE OF REPORT	Yes	No	Yes	No
a. Quality of preventive care delivered to eligible patients				
b. Quality of care delivered to patients with specific chronic conditions (such as asthma, diabetes, depression, or congestive heart failure)				
c. Demographic information on patients' race, ethnicity, or preferred language				
d. Quality of care delivered to patients of different races or ethnic backgrounds				
e. Patient lists or registries (e.g., lists of patients with specific clinical conditions, medications, or laboratory results)				
Do you personally participate in quality reporting progryour practice (e.g., Bridges to Excellence, or the Center Yes No  Do physicians in your main practice routinely treat patients MARK (X) ONE ANSWER FOR EACH ITEM	rs for Me	dicare & M	ledicaid Se	rvices)?
CHRONIC CONDITION		Yes		No
a. Asthma				
b. Diabetes				

29.

30.

c. Depression

d. Congestive heart failure

IF YOU ANSWERED "YES" TO ONE OR MORE CHRONIC CONDITIONS (Q30a-d), GO TO Q31 IF YOU ANSWERED "NO" TO ALL FOUR CHRONIC CONDITIONS (Q30a-d), SKIP TO Q32

31. Does your main practice provide the following services to patients with asthma, diabetes, depression, or congestive heart failure?

# MARK (X) FOR EACH SERVICE PROVIDED FOR PATIENTS WITH THE CONDITIONS ROUTINELY TREATED BY YOUR MAIN PRACTICE

TYPES OF PATIENT SERVICES	Asthma	Diabetes	Depression	Congestive Heart Failure
a. Written materials that explain guidelines for recommended care in English				
b. Written materials that explain guidelines for recommended care in languages other than English				
c. Nurse care managers to monitor and coordinate the care of patients with that condition				
d. Non-physician staff to educate patients in managing that condition				
e. Group visits in which patients with that condition meet with staff who provide routine medical care or address educational or personal concerns				

	·				
32.	Discoss management nyagyama are intended to r		to and imp	weve quality o	f lifo
<b>32.</b>	Disease management programs are intended to r				т ште
	for patients with chronic diseases by integrating patient in self-care. Are any of your patients in disponsored by health plans or employers?	-		_	
	☐ Yes → GO TO Q32a				
	$\square$ No $\rightarrow$ SKIP TO Q33				
	32a. Please indicate your level of agreement or o	disagreeme	ent with th	e following st	atements

about disease management programs sponsored by health plans or employers.

	Agree Strongly	Agree Somewhat	Neither Agree nor Disagree	Disagree Somewhat	Disagree Strongly
Disease management programs improve the overall quality of care for my patients with chronic conditions					
Disease management programs improve my ability to provide high quality care to my patients with chronic conditions					

## 33. This question concerns your experiences coordinating patient care with other physicians.

- If you are a primary care physician (general and family practitioners, and internists and pediatricians who provide general care), answer items (a-d).
- If you are a specialist, answer items (a) and (e-g).
- If you provide both primary care and specialist care, answer all items.
- Check "not applicable" if you rarely or never coordinate patient care.

#### MARK (X) ONE ANSWER FOR EACH ITEM

	Always or Most of the Time	Sometimes	Seldom or Never	Not Applicable
ALL PHYSICIANS				
a. How often do you know about all the visits that your patients make to other physicians?				
PRIMARY CARE PHYSICIANS ONLY				
<ul> <li>b. When you refer a patient to a specialist, how often do you send the specialist notification of the patient's history and reason for the consultation?</li> </ul>				
c. How often do you receive useful information about your referred patients from specialists?				
d. After your patient has seen a specialist, how often do you talk with the patient or family members about the results of the visit(s) with the specialist?				
SPECIALISTS ONLY				
e. When you see a patient referred to you by a primary care physician (PCP), how often do you receive notification about the patient's medical history and reason for consultation?				
f. For the patients that were referred to you by a PCP, how often do you send the PCP notification of the results of your consultation and advice to the patient?				
g. How often are new patients you see self-referred?				

34.	During the last 12 months, were you unable to obtain the following services for your patients when
	vou thought they were medically necessary?

If the service does not apply to your practice, please check "Not Applicable."

SERVICE	Yes	No	Not Applicable
a. Referrals to high quality specialists			
b. Non-emergency hospital admissions			
c. High quality outpatient mental health services			
d. Interpreter services for non-English speaking patients when they received care in your practice			

35.	What percentage o	of your p	patient			-						· · · · · · · · · · · · · · · · · · ·
	Your best estimate is	fine.										
	Record Percentage				%							
			lone									
36.	Please indicate how making the following		-		sider	r insure	d patie	ents' out-	of-pocke	et costs in	1	
	MARK (X) ONE ANS				н іте	EM						
	(2., 0 2		011					Always	Usually	Sometim	es Rare	y Never
	a. If a generic option prescribe a generi					•						
	b. If there is uncertain consider an insure deciding the types	ed patier	nt's out	-of-	-pock	et costs	-					
	c. If there is a choice care, how often do out-of-pocket cos	o you co	•			•						
37.	The table below lis For each one, indic problem affecting y	cate wh	ether	γοι	u thii	nk it is	a majo	r probler		_	or not a	
37.	For each one, indic problem affecting y MARK (X) ONE ANS	cate wh your ab SWER F	ether ility to FOR E	you pr ACI	u thii ovid H ITE	nk it is e high EM	a majo quality	r probler care.	n, minor	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAR	cate wh your ab SWER F MAY LIM RE:	ether ility to FOR EA	you pr ACI PHY	u thii rovide H ITE SICI/	nk it is e high EM AN'S AE	a majo quality	r probler care.	n, minor	problem,		Not a
31.	PROBLEMS THAT IN HIGH QUALITY CAP	cate whyour about SWER FMAY LIMRE:	ether ility to FOR EA	you pr ACI PHYS	u thin rovide H ITE SICIA	nk it is e high EM AN'S AE	a majo quality	r probler care.	n, minor	problem,  Major	Minor	Not a
37.	PROBLEMS THAT MIGH QUALITY CAP  a. Inadequate time w b. Patients' inability t	SWER F MAY LIM RE: with patie to pay fo	ether illity to FOR EA IIT A P	you o pr ACI PHYS ring	u thin rovide H ITE SICI/ g office care	nk it is e high EM AN'S AE	a majo quality	r probler care.	n, minor	problem,  Major	Minor	Not a
37.	PROBLEMS THAT MIGH QUALITY CAP  a. Inadequate time w b. Patients' inability t c. Rejections of care	swer F MAY LIM RE: with patie to pay fo	ether illity to FOR EA IIT A P ents dual or needens by ir	you pr ACI PHYS	u thin rovide H ITE SICI/ g offic care	nk it is e high EM AN'S AE	a majo quality	r probler care.	n, minor	problem,  Major	Minor	Not a
37.	PROBLEMS THAT MIGH QUALITY CAP  a. Inadequate time w b. Patients' inability t	SWER F  MAY LIW  RE:  with patie  to pay fo  e decision  specialist	ether illity to FOR EATING A PROPERTY OF THE P	you pr ACI PPHYS rring led on sur a	u thin rovide H ITE SICI/ g office care rance area	nk it is e high of the high of	a majo quality	r probler care.	n, minor	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time with the problem of care  b. Patients' inability to c. Rejections of care  d. Lack of qualified so	SWER F  MAY LIM  RE:  with patie to pay for electric decision specialist reports	ether illity to FOR EATING A PROPERTY OF THE P	you pr ACI ring ring ded ( nsur a pur a	u thin rovide H ITE SICI/ g office care rance area	nk it is e high of the high of	a majo quality  BILITY T	r probler care.	DE	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time with the control of the con	SWER F  MAY LIM  RE:  with patie to pay for expecialist reports unicating	ether illity to FOR EATING A PROPERTY OF THE P	ring ed consurration	w thin rovide H ITE SICI/ 3 office care rance area r physicants of the sicility of the sicilit	e high of the high	a majo quality  BILITY T	r probler care.  O PROVII	DE	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time with the control of the con	SWER F  MAY LIW  RE:  with patie to pay for expecialist reports unicating	ether illity to FOR EATING A PROPERTY OF THE P	ring ed consurration	w thin rovide H ITE SICI/ 3 office care rance area r physicants of the sicility of the sicilit	e high of the high	a majo quality  BILITY T	r probler care.  O PROVII	DE	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time with the problem of care of the composition of the com	swer F MAY LIW RE: with patie to pay for e decision specialist reports unicating liance with nospitals as that yo	ether illity to FOR EATHER APPRINT APP	you pr ACI PHYST ring led of consurration at the parties at the limit.	w thin rovide H ITE SICI/ SICI	nk it is e high of the high of	a majo quality  BILITY T	r probler care.  O PROVII	DE  I barriers	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time was b. Patients' inability to c. Rejections of care d. Lack of qualified so e. Not getting timely f. Difficulties community. Patient non-complete h. Medical errors in his i. Any other problems	swer F MAY LIW RE: with patie to pay for e decision specialist reports unicating liance with nospitals as that yo	ether illity to FOR EATHER APPRINT APP	you pr ACI PHYST ring led of consurration at the parties at the limit.	w thin rovide H ITE SICI/ SICI	nk it is e high of the high of	a majo quality  BILITY T	r probler care.  O PROVII	DE  I barriers	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time was b. Patients' inability to c. Rejections of care d. Lack of qualified see. Not getting timely f. Difficulties community. Patient non-complete h. Medical errors in hei. Any other problem care (Describe below)	swer F MAY LIW RE: with patie to pay for e decision specialist reports unicating liance with nospitals as that yo	ether illity to FOR EATHER APPRINT APP	you pr ACI PHYST ring led of consurration at the parties at the limit.	w thin rovide H ITE SICI/ SICI	nk it is e high of the high of	a majo quality  BILITY T	r probler care.  O PROVII	DE  I barriers	problem,  Major	Minor	Not a
37.	PROBLEMS THAT IN HIGH QUALITY CAP  a. Inadequate time was b. Patients' inability to c. Rejections of care d. Lack of qualified see. Not getting timely f. Difficulties community. Patient non-complete in Any other problem care (Describe below).	swer F MAY LIW RE: with patie to pay for e decision specialist reports unicating liance with nospitals as that yo	ether illity to FOR EATHER APPRINT APP	you pr ACI PHYST ring led of consurration at the parties at the limit.	w thin rovide H ITE SICI/ SICI	nk it is e high of the high of	a majo quality  BILITY T	r probler care.  O PROVII	DE  I barriers	problem,  Major	Minor	Not a

# PRACTICE ACCEPTANCE OF NEW PATIENTS

38.	38. Is your practice accepting all, most, some, or no new patients who are insured through MEDICARE, including Medicare managed care patients?								
	MARK (X) ONE ANSWER								
	☐ All new Medicare and Medicare Managed Care patients → GO TO Q39								
	□м	ost new Medicare and Medicare Managed Care patie	ents → GO	TO Q39					
		ome new Medicare and Medicare Managed Care pati	ents -> ANS	SWER Q38a					
		o new Medicare and Medicare Managed Care patient	ts <b>— ANSW</b>	ER Q38a					
		If your practice accepts some or no new MED of each of the following reasons for your prac			ndicate the	importance			
		OR NO NEW MEDICARE PATIENTS:	Important	Important	Important	Important			
		Billing requirements, including paperwork, and filing of claims							
		2. Concern about a Medicare audit							
		3. Inadequate reimbursement							
		4. Practice already has enough patients							
		5. Medicare patients have high clinical burden							
39.									
		o new Medicaid and Medicaid Managed Care patient							

39a. If your practice accepts some or no new MEDICAID patients, please indicate the importance of each of the following reasons for your practice's decision.

REASONS WHY PRACTICE ACCEPTS SOME OR NO NEW MEDICAID PATIENTS:	Very Important	Moderately Important	Not Very Important	Not at all Important
Billing requirements, including paperwork, and filing of claims				
2. Delayed reimbursement				
3. Inadequate reimbursement				
4. Practice already has enough patients				
5. Medicaid patients have high clinical burden				

	3. Inadequate reimbursement								
	4. Practice already has enough patients								
	5. Medicaid patients have high clinical burden								
CC	Is your practice accepting all, most, some, or no new patients through PRIVATE OR COMMERCIAL INSURANCE PLANS, including managed care plans and HMOs with which the practice has contracts?								
M	ARK (X) ONE ANSWER								
	All new privately insured patients								
	Most new privately insured patients								
	Some new privately insured patients								
	No new privately insured patients								
	SOURCES OF PRA	CTICE RE	VENUE						
(in	oproximately what percentage of the practice in acluding Medicare health plans) and what percentaged care) and other public insurance for lo	entage comes	from MEDIC						
Yo	ur best estimate is fine.								
-	you work in more than one practice, answer for your st estimate is fine.	main practice. If	you are unsure	of the percent	tages, your				
pat	cord Percentage of practice's ient care revenue m MEDICARE	%							
pat <b>ME</b>	cord Percentage of practice's ient care revenue from EDICAID and other public urance	%							

42.	2. Under CAPITATION, a fixed amount is paid per patient per month regardless of the services provided. Thinking about the patient care revenue from all sources received by the practice in which you work, what percentage is paid on a capitated or other prepaid basis?						
	Your best estimate is fine.						
	Record Percentage of patient care revenue that is CAPITATED %						
43.	With how many health plans does your practice he Managed care contracts are contracts with health				I <b>PA</b> s. and		
	Point-Of-Service plans that use financial incentivutilization of specific providers associated with t	es or spec					
	Your best estimate is fine.						
	MARK (X) ONE ANSWER						
	None						
	□ 1–4						
	5–9						
	10–19						
	20 or more						
	MEDICAL MAI	DRACT	ICE				
	WEDICAL WAI	PRACI	ICL				
44.	Considering the full range of patients that you see following statements about medical malpractice.	e, indicate	your level of	agreeme	ent with t	he	
		Strongly Disagree	Disagree	Not Sure	Agree	Strongly Agree	
	I am concerned that I will be involved in a malpractice case sometime in the next 10 years.						
	I feel pressured in my day-to-day practice by the threat of malpractice litigation.						
	3. I order some tests or consultations simply to avoid the appearance of malpractice.						
	4. Sometimes I ask for consultant opinions primarily to reduce my risk of being sued.						
	5. Relying on clinical judgment rather than on technology to make a diagnosis is becoming riskier because of the threat of malpractice suits.						

## **MEDICAL EQUIPMENT & HOSPITAL OWNERSHIP**

- 45. Physicians are relying on more diverse business models now than in the past.
  - A. Does your main practice own (fully or in part) or lease the types of medical equipment listed below? (CHECK NO OR YES FOR EACH TYPE OF EQUIPMENT.)
  - B. **FOR EACH TYPE OF MEDICAL EQUIPMENT CHECKED YES:** is the medical equipment located in your main practice, in a separate business, or in both your main practice and a separate business? By separate business, we mean a subsidiary or separate legal entity from your main practice.

	A. OWN C	OR LEASE?	ASE? B. LOCATION OF EQUIPMENT			
MEDICAL EQUIPMENT USED FOR:	No Yes		Main Practice	Separate Business	Both Practice and Separate Business	
Laboratory testing, including routine blood work		$\square$ $\rightarrow$				
b. X-rays		$\square$ $\rightarrow$				
c. Other diagnostic imaging, such as CT or MRI scans		$\square$ $\rightarrow$				
d. Non-invasive testing besides EKGs (e.g., Echocardiograms, treadmill, nuclear testing, sleep testing)		$\square$ $\rightarrow$				
e. Invasive procedures, such as endoscopy or cardiac catheterization		$\square$ $\rightarrow$				

**46.** Excluding any medical equipment owned or leased by your main practice, do you personally own (fully or in part) or lease the following types of medical equipment?

	Yes	No	Unsure
MEDICAL EQUIPMENT USED FOR:			
a. Laboratory testing, including routine blood work			
b. X-rays			
c. Other diagnostic imaging, such as CT or MRI scans			
d. Non-invasive testing besides EKGs (e.g., Echocardiograms, treadmill, nuclear testing, sleep testing)			
e. Invasive procedures, such as endoscopy or cardiac catheterization			

47.	Does your main practice own (fully or in part) a hospital?  MARK (X) ONE ANSWER
	☐ Main practice is a hospital or is owned by a hospital
	□ No
	☐ Unsure
48.	Excluding any hospitals owned by your main practice, do you personally own (fully or in part) a hospital?
	MARK (X) ONE ANSWER
	Yes
	□ No
	Unsure
	COMPENSATION
49.	Which of the following methods best describes your basic compensation?
	MARK (X) ONE ANSWER
	☐ Fixed salary
	Salary adjusted for performance (e.g., own productivity, practice's financial performance, quality measures, practice profiling)
	Shift, hourly, or other time-based payment
	☐ Share of practice billings or workload
	Other Method (Describe)
50.	Are you eligible to earn income through any type of bonus or incentive plan?
	Check Yes if you receive periodic adjustments, bonuses, returns on withholds, or any type of supplemental payments, either from your practice or from health plans.
	MARK (X) ONE ANSWER
	Yes
	□ No

51. Medical practices may take various factors into account in determining the compensation (salary, bonus, pay rate, etc.) paid to physicians in the practice. Please indicate whether each of the following factors is explicitly considered by the practice in determining your compensation.

IF THE FACTOR IS CONSIDERED, how important is it in determining your compensation?

	Is the facto conside determin compens	ered in ing your	IF YES, how important is the factor in determining your compensation?			
COMPENSATION FACTORS:	No	Yes	Very important	Moderately important	Not very important	Not at all important
a. Factors that reflect your own productivity.		$\Box$ $\rightarrow$				
b. Results of satisfaction surveys completed by your own patients.		$\Box$ $\rightarrow$				
c. Specific measures of quality of care, such as rates of preventive care services for your patients.		$\square \rightarrow$				
d. Results of practice profiling, i.e., comparing your pattern of using medical resources with that of other physicians.		$\Box$ $\rightarrow$				
e. The overall financial performance of the practice.		$\square$ $\rightarrow$				

During 2006, did you personally receive any of the following from drug, device, or other medicallyrelated companies? Include honoraria and payments from marketing and research firms working for medically-related companies.

	Yes	No
a. Food and/or beverages in your workplace?		
b. Free drug samples?		
c. Honoraria for speaking?		
d. Honoraria for participating in surveys on prescribing practices?		
e. Payment for consulting services?		
f. Payment in excess of costs for enrolling patients in clinical trials?		
g. Costs for travel for attending meetings?		
h. Gifts that you received as a result of prescribing practices?		
i. Complimentary tickets to cultural or sporting events?		
j. Complimentary or subsidized admission to meetings or conferences for which CME credits are awarded?		

53.	please estimate the tota or other medically-relat	al value of all goods a ed companies? Inclu	mples you may have received in your workplace, and services you received in 2006 from drug, device, de honoraria or payments from surveys on prescribing ch firms for medically-related companies?
	Your best estimate is fine.	MARK (X) ONE ANS	SWER
	None		S1,001 to \$5,000
	□ \$1 to \$ 500		S5,001 to \$10,000
	\$501 to \$1,000		☐ More than \$10,000
54.	During 2006, what was before taxes?	your own net income	e from the practice of medicine, after expenses but
	well as contributions to retir	ement plans made for y medically-related enter	tainers, etc.) from all practices, not just your main practice, as ou by your practice(s). Exclude investment income, defined as prises independent of your medical practice(s), such as
	Your best estimate is fine.	MARK (X) ONE ANS	WER
	Less than \$100,000		\$200,001 to \$250,000
	\$100,001 to \$150,000		\$250,001 to \$300,000
	\$150,001 to \$200,000		More than \$300,000
<b>55.</b>	What percent of your overeflect your own production		the practice of medicine is based on factors that
	None		☐ 26 to 50 percent
	1 to 10 percent		☐ 51 to 75 percent
	11 to 25 percent		76 to 100 percent
		PERSONAL	BACKGROUND
56.	Do you consider yourse Spanish-speaking backs	=	origin, such as Mexican, Puerto Rican, Cuban, or other ONE ANSWER
	Yes, Hispanic		☐ No, Not Hispanic
<b>57.</b>	What race do you consid	der yourself to be?	MARK (X) FOR ALL ANSWERS THAT APPLY
	White		Native American or Alaska Native
	Black or African-Americ	can	Other
	Asian or Pacific Islande	er	

58.	Is your main medical p	ractice locate	d at the ac	ddress to w	hich this que	stionnaire	was n	nailed?
	☐ Yes→ SKIP TO Q60	)						
	No → GO TO Q59							
59.	What are the name and Your information is confide help us categorize types of in future years.	ential and individ	duals or prac	ctices will no	t be identified.	•		
	Name of Practice							
	Street Address							
	City				State		Zip	
60.	What is the name of the This information is confider to define hospital referral ref	ntial and will be	used solely	for analytic	ourposes, for ex	-	s?	
	nk you for taking the t				e-paid envelo	ope.		
h	e appreciate your fee ealth issues you would omments:				_	nment or	n the s	urvey or
_								
_								
	□ 4	2	3 4	5	6 7	8 0		Bat
			<u> </u>					

# APPENDIX B

List of Variables in the 2008 HSC Health Tracking Physician Survey Public Use and Restricted Use Files

Variable Name	Variable Type	Description	PUF Status	RUF Status
ROUND	NUM	PH5:Round of survey		
FORMID	CHAR	PH5:Form ID		
PHYSID	CHAR	PH5:Physician identifier		
PHYSIDX	CHAR	PH5:Physician identifier	yes	yes
D	CHAR	AMA:AMA ID		
BIRTH	NUM	AMA:Birth year		yes
BIRTHX	NUM	AMA:Birth year	yes	
\GE	NUM	PH5:CV:age		
GENDER	NUM	PH5:AMA:Sex,1-Male,2-Female	yes	yes
GRAD_YR	NUM	AMA:Med School Graduation year		yes
GRADYRX	NUM	AMA:Med School Graduation year		
MDDO	NUM	AMA:Physician type		
SCHOOL	CHAR	AMA:Medical school		
MGSTAT	NUM	PH5:CV:Country of Medical School		yes
MGUSPR	NUM	PH5:CV:Foreign Medical School Graduate		yes
STATE	CHAR	AMA:State code		yes
FIPSCODE	CHAR	AMA:FIPS state+county code, chr		yes
ZIPCODE	CHAR	AMA:Mailing zip code		
CENREG	NUM	AMA:Census region		yes
CENDIV	NUM	AMA:Census division		yes
JICS	NUM	PH5:CV:Urban Influence Codes, 2003		yes
RESFEL	NUM	PH5:A.Are you a resident or fellow?		
EDEMP	NUM	PH5:B.Are you a FT of federal agency?		
ULLTIM	NUM	PH5:C.Provide 20+ hrs/wk patient care?		
RCARSAT	NUM	PH5:1.Overall Career satisfaction	yes	yes
/RBGN	NUM	PH5:2.Year began practicing medicine		yes
/RBGNX	NUM	PH5:2.Year began practicing medicine	yes	
YRPRAC	NUM	PH5:CV:Number of Years in practice		yes
PRIMSPC	NUM	PH5:3.Primary Specialty		yes
SPCLTY	CHAR	AMA:Specialty code		yes
PCP	NUM	HP5:CV:Primary care physician	yes	yes
SPECCAT	NUM	PH5:CV:Primary specialty category		
SPEC	NUM	PH5:CV:7-cat speciality	yes	yes
BDCTPSP	NUM	PH5:4.Board-certified in prim specialty?	yes	yes
PTYPE	NUM	PH5:5.Practice type where spend most tme		yes
_PTYPE	NUM	PH5:Imputation flag for PTYPE		yes
PRCTYPE	NUM	PH5:CV: Practice type, edited	yes	yes
SETTING	NUM	PH5:5a.Setting where spend most time		yes
SETTING	NUM	PH5:Imputation flag for SETTING		yes
DWNPR	NUM	PH5:6.Ownershp status in main practice	yes	yes
OWNPR	NUM	PH5:Imputation flag for OWNPR		yes
PHYSOWN	NUM	PH5:6a.Ownership interest, Oth physician	yes	yes
PHYSOWN	NUM	PH5:Imputation flag for PHYSOWN		yes
PRACOWN	NUM	PH5:6a.Ownership interest, Anthr practce		yes
PRACOWN	NUM	PH5:Imputation flag for PRACOWN		yes
HOSPOWN	NUM	PH5:6a.Ownership interest, A hospital		yes
HOSPOWN	NUM	PH5:Imputation flag for HOSPOWN		yes
NSROWN	NUM	PH5:6a.Ownership interest, Insur company		yes
INSROWN	NUM	PH5:Imputation flag for INSROWN		yes

Variable Name	Variable Type	Description	PUF Status	RUF Status
MSCHOWN	NUM	PH5:6a.Ownership interest, Medcal school		yes
_MSCHOWN	NUM	PH5:Imputation flag for MSCHOWN		yes
OTHROWN	NUM	PH5:6a.Ownership interest, Other		yes
_OTHROWN	NUM	PH5:Imputation flag for OTHROWN		yes
GOVENTY	NUM	HP5:CV:Government entity		yes
_GOVENTY	NUM	PH5:Imputation flag for GOVENTY		yes
NPRFORG	NUM	HP5:CV:Nonprofit organization		yes
_NPRFORG	NUM	PH5:Imputation flag for NPRFORG		yes
PRFTORG	NUM	HP5:CV:For profit organization		yes
_PRFTORG	NUM	PH5:Imputation flag for PRFTORG		yes
NPHYPRC	NUM	HP5:CV:Nonphysician practice partners		yes
_NPHYPRC	NUM	PH5:Imputation flag for NPHYPRC		yes
XNWOHTC	NUM	HP5:CV: Other ownership interest	yes	
HMSOWNX	NUM	HP5:CV: Other ownership is solely hospital or med school	yes	
NPHYCAT	NUM	PH5:7.Number of phys at practice, catg.		
_NPHYCAT	NUM	PH5:Imputation flag for NPHYCAT		
NPHYS	NUM	PH5:7a.Number of physicians at practice		yes
NPHYSX	NUM	PH5:7a.Number of physicians at practice	yes	
_NPHYS	NUM	PH5:Imputation flag for NPHYS		yes
NCENT	NUM	PH5:8.Overall financial incentives	yes	yes
COMPETE	NUM	PH5:9.Competitive situation of practice	yes	yes
NKSWRK	NUM	PH5:10.Weeks practicing medicine in 2006		yes
WKSWRKX	NUM	PH5:10.Weeks practicing medicine in 2006	yes	
WKSWRK	NUM	PH5:Imputation flag for WJKSWRK		yes
HRSPAT	NUM	PH5:11a.Hours last week in direct patient care		yes
HRSPAT	NUM	PH5:Imputation flag for HRSPAT		yes
- HRSADM	NUM	PH5:11b.Hours last week in administrative tasks		yes
HRSADM	NUM	PH5:Imputation flag for HRSADM		yes
- HRSMED	NUM	PH5:CV: edited Hours last week, med-related actvty		yes
HRSMEDX	NUM	PH5:CV: edited Hours last week, med-related actity	yes	
HRSMED	NUM	PH5:Imputation flag for HRSMED	7	yes
OFFCOPV	NUM	PH5:12a. Number visits office and outpatient clinic		yes
OFFCOPVX	NUM	PH5:12a. Number visits office and outpatient clinic	yes	,
OFFCOPV	NUM	PH5:Imputation flag for OFFCOPV	<u> </u>	yes
HOSPV	NUM	PH5:12b. Number visits on hospital rounds		yes
HOSPVX	NUM	PH5:12b. Number visits on hospital rounds	yes	,
HOSPV	NUM	PH5:Imputation flag for HOSPV		yes
NURSHMV	NUM	PH5:12c. Number visits in nursing homes		yes
NURSHMVX	NUM	PH5:12c. Number visits in nursing homes	yes	,
NURSHMV	NUM	PH5:Imputation flag for NRUSHMV	,,,,	yes
TMEMLPT	NUM	PH5:13a.Time spend e-mail patients	yes	yes
TMPHNPT	NUM	PH5:13b.Time spend phone patients	yes	yes
TMEMLDR	NUM	PH5:13c.Time spend e-mail physicians	yes	yes
TMPHNDR	NUM	PH5:13d.Time spend phone physicians	yes	yes
RBEMLPT	NUM	PH5:14a.Reimbursed: E-mail patients	yes	yes
RBPHNPT	NUM	PH5:14b.Reimbursed: Phone patients	yes	yes
RBEMLDR	NUM	PH5:14c.Reimbursed: E-mail physicians	yes	yes
RBPHNDR	NUM	PH5:14d.Reimbursed: Phone physicians		<u> </u>
HRFREE	NUM	PH5:15.Hours last month provide charity care	yes	yes yes

Variable Name	Variable Type	Description	PUF Status	RUF Status
HRFREEX	NUM	PH5:15.Hours last month provide charity care	yes	
_HRFREE	NUM	PH5:Imputation flag for HRFREE		yes
OCFREE	NUM	PH5:15a.Location provide charity care		yes
OCFREEX	NUM	PH5:15a.Location provide charity care	yes	
BLCKPT	NUM	PH5:16a.Pct patient-African American or Black		yes
BLCKPTX	NUM	PH5:16a.Pct patient-African American or Black	yes	
BLCKPT	NUM	PH5:Imputation flag for BLCKPT		yes
HISPPT	NUM	PH5:16b.Pct patient-Hispanic or Latino		yes
HISPPTX	NUM	PH5:16b.Pct patient-Hispanic or Latino	yes	
_HISPPT	NUM	PH5:Imputation flag for HISPPT		yes
ASIAPT	NUM	PH5:16c.Pct patient-Asian or Pacific Islander		yes
ASIAPTX	NUM	PH5:16c.Pct patient-Asian or Pacific Islander	yes	
_ASIAPT	NUM	PH5:Imputation flag for ASIAPT		yes
NATVPT	NUM	PH5:16d.Pct patient-Native Amer or Alaska Native		yes
_NATVPT	NUM	PH5:Imputation flag for NATVPT		yes
CHRNPT	NUM	PH5:16e.Pct patient-Has chronic condition	yes	yes
_CHRNPT	NUM	PH5:Imputation flag for CHRNPT		yes
ANGPT	NUM	PH5:17.Pct patient-speak differnt languages		yes
_ANGPTX	NUM	PH5:17.Pct patient-speak differnt languages	yes	
NTPRTR	NUM	PH5:18.Practice provd interpreter servce?	yes	yes
_SPAN	NUM	PH5:18a.Provide interpreter -Spanish		
_PORT	NUM	PH5:18a.Provide interpreter -Portuguese		
_CHIN	NUM	PH5:18a.Provide interpreter -Chinese		
_SRVC	NUM	PH5:CV:Provide Multiple thru translator service		
_SIGN	NUM	PH5:CV:Provide interpreter -Sign language		
_FRENCH	NUM	PH5:CV:Provide interpreter -French		
_ITALN	NUM	PH5:CV:Provide interpreter -Italian		
_RUSAN	NUM	PH5:CV:Provide interpreter -Russian		
_POLISH	NUM	PH5:CV:Provide interpreter -Polish		
_SOMALI	NUM	PH5:CV:Provide interpreter -Somalie		
_ARABIC	NUM	PH5:CV:Provide interpreter -Arabic		
_CREOLE	NUM	PH5:CV:Provide interpreter -Creolee		
_VIET	NUM	PH5:CV:Provide interpreter -Vietnamese		
 _JAPAN	NUM	PH5:CV:Provide interpreter -Japanese		
 _KOREAN	NUM	PH5:CV:Provide interpreter -Koreane		
_ _HINDI	NUM	PH5:CV:Provide interpreter -Hindi		
_ _HMONG	NUM	PH5:CV:Provide interpreter -Hmong		
 _OTHER	NUM	PH5:CV:Provide interpreter -Other		
_LANG	NUM	PH5:CV:Summary variable -number of languages	yes	yes
 DUMNPT	NUM	PH5:19.Attend educ improve minority patient hlth?	yes	yes
T_TRT	NUM	PH5:20aCP.IT avail get info on recmmnded guideline	yes	yes
T_TRTX	NUM	PH5:20a_1CP.IT used get info on recmmnded guidelne	yes	yes
 T_TRTU	NUM	PH5:CV:IT aval/use get info on recmmnded guideline	yes	yes
TDCSN	NUM	PH5:20bCP.IT avail get decision support	yes	yes
TDCSNX	NUM	PH5:20b_1CP.IT used get decision support	yes	yes
TDCSNU	NUM	PH5:CV:IT avail/use get decision support	yes	yes
TRMNDR	NUM	PH5:20cCP.IT avail remind clincian on prev service	yes	yes
TRMNDRX	NUM	PH5:20c_1CP.IT use remind clincian on prev service	yes	yes
TRMNDRU	NUM	PH5:CV:IT aval/use remind clincian on prev service	yes	yes

Variable Name	Variable Type	Description	PUF Status	RUF Status
TDRFUP	NUM	PH5:20dCP.IT avail remind clincian on follow-up	yes	yes
TDRFUPX	NUM	PH5:20d_1CP.IT used remind clnician on follow-up	yes	yes
TDRFUPU	NUM	PH5:CV:IT avail/use remind clincian on follow-up	yes	yes
TRMNPT	NUM	PH5:20eCP.IT avail remind patents on prev service	yes	yes
TRMNPTX	NUM	PH5:20e_1CP.IT used remind patents on prev service	yes	yes
TRMNPTU	NUM	PH5:CV:IT avail/use remind patents on prev service	yes	yes
TCOMM	NUM	PH5:20fCP.IT avail communication w/ pat by e-mail	yes	yes
TCOMMX	NUM	PH5:20f_1CP.IT used communication w/ pat by e-mail	yes	yes
TCOMMU	NUM	PH5:CV:IT avail/use communication w/ pat by e-mail	yes	yes
TNOTES	NUM	PH5:20aPI.IT avail to access patient notes	yes	yes
TNOTESX	NUM	PH5:20a_1PI.IT used to access patient notes	yes	yes
TNOTESU	NUM	PH5:CV:IT avail/use to access patient notes	yes	yes
TTEST	NUM	PH5:20bPI.IT avial to order lab, other diag tests	yes	yes
TTESTX	NUM	PH5:20b_1PI.IT used to order labe, oth diag tests	yes	yes
TTESTU	NUM	PH5:CV:IT avial/use to order lab, other diag tests	yes	yes
TRSLT	NUM	PH5:20cPI.IT avail view lab, diag test result	yes	yes
TRSLTX	NUM	PH5:20c_1PI.IT used view lab, diag test result	yes	yes
TRSLTU	NUM	PH5:CV:IT avail/use view lab, diag test result	yes	yes
TCLIN	NUM	PH5:20dPI.IT avail exchng clin data w/ other phys	yes	yes
TCLINX	NUM	PH5:20d_1PI.IT used exchng clin data w/ other phys	yes	yes
TCLINU	NUM	PH5:CV:IT avail/use exchng clin data w/ other phys	yes	yes
THOSP	NUM	PH5:20ePI.IT avail exchg clin data w/ hosp and lab	yes	yes
THOSPX	NUM	PH5:20e_1PI.IT use exchg clin data w/ hosp and lab	yes	yes
THOSPU	NUM	PH5:CV:IT aval/use exchg clin data w/ hosp and lab	yes	yes
TLANG	NUM	PH5:20fPI.IT avail access info on pat prefer lang	yes	yes
TLANGX	NUM	PH5:20f_1PI.IT used access info on pat prefer lang	yes	yes
TLANGU	NUM	PH5:CV:IT avail/use access info on pat prefer lang	yes	yes
TDRUG	NUM	PH5:20aPD.IT avail get info on pat RX interaction	yes	yes
TDRUGX	NUM	PH5:20a_1PD.IT used get info on pat RX interaction	yes	yes
TDRUGU	NUM	PH5:CV:IT avail/use get info on pat RX interaction	yes	yes
T FORM	NUM	PH5:20bPD.IT avail get info on formularies	yes	yes
T FORMX	NUM	PH5:20b_1PD.IT used get info on formularies	yes	yes
T_FORMU	NUM	PH5:CV:IT avail/use get info on formularies	yes	yes
TPRESC	NUM	PH5:20cPD.IT avail to write prescriptions	yes	yes
TPRESCX	NUM	PH5:20c_1PD.IT used to write prescriptions	yes	yes
TPRESCU	NUM	PH5:CV:IT avail/use to write prescriptions	yes	yes
TPHRM	NUM	PH5:20dPD.IT avail transmit RX to pharmacy	yes	yes
TPHRMX	NUM	PH5:20d_1PD.IT used transmit RX to pharmacy	yes	yes
TPHRMU	NUM	PH5:CV:IT avail/use transmit RX to pharmacy	yes	yes
MRUSE	NUM	PH5:21.Main Practice use Electronic Medical Record?	yes	yes
TINCNT	NUM	PH5:22.Any financial incentives tied to IT used?	yes	yes
ERRREPT	NUM	PH5:23.Hosp have system to report medical errors?	yes	yes
ISPLST	NUM	PH5:24.Pct of hospizd pat had hospitalst invloved?	yes	yes
ISPLSTA	NUM	PH5:24.Did not admit patients to hospital last yr	yes	yes
ISPLSTA	NUM	PH5:24.respondent is practicing hospitalst		
NTSVST	NUM	PH5:25.Hosp ICU you used covered by intensivists?	yes	yes
FGUIDE	NUM	PH5:26.Effect of formal writtn guideline	yes	yes
			yes	yes
RADQTIME	NUM	PH5:27a.Adequate time spend w/ patients on visit	yes	yes

RPTCPCP NUM PH5:28a_2.Practoc rpt, qual preventive care delry yes yes RPTCHRO NUM PH5:28b_1.Dwn pat rpt, qual care delry to chm pat yes yes RPTCHRP NUM PH5:28b_1.Dwn pat rpt, qual care delry to chm pat yes yes RPTCHRP NUM PH5:28b_1.Dwn pat rpt, qual care delry to chm pat yes yes RPTCHRP NUM PH5:28c_1.Dwn pat rpt, qual care delry to chm pat yes yes RPTCHMP NUM PH5:28c_1.Dwn pat rpt, qual care delry to diff race yes yes RPTCHMO NUM PH5:28c_2.Practoc rpt, qual care delry to diff race yes yes RPTCHHO NUM PH5:28d_1.Dwn pat rpt, qual care delry to diff race yes yes RPTCHP NUM PH5:28d_1.Dwn pat rpt, qual care delry to diff race yes yes RPTLSTO NUM PH5:28e_1.Dwn pat rpt, patient lists or registries yes yes RPTLSTP NUM PH5:28e_1.Dwn pat rpt, patient lists or registries yes yes RPTLSTP NUM PH5:29e_1.Dwn pat rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:29e_1.Practoc rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:29e_1.Practoc rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:30e.Practice routinely treat patents will ask yes yes yes restrained to the patient yes	Variable Name	Variable Type	Description	PUF Status	RUF Status
RPTCHRO NUM PH5:28b_1.Cwn pat rpt, qual care delry to chm pat PPTCHRP NUM PH5:28b_2.Practac rpt, qual care delry to chm pat yes yes RPTCMRP NUM PH5:28b_2.Practac rpt, qual care delry to chm pat yes yes RPTCMRP NUM PH5:28b_1.Dwn pat rpt, pat demographic information yes yes PRTETHP NUM PH5:28b_1.Dwn pat rpt, pat demographic information yes yes yes RPTETHP NUM PH5:28b_1.Dwn pat rpt, pat demographic information yes yes yes RPTETHP NUM PH5:28b_1.Dwn pat rpt, patient lists or registries yes yes yes RPTLSTO NUM PH5:28b_1.Dwn pat rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:28b_2.Practac rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:28b_2.Practac rpt, patient lists or registries yes yes yes rRASTHM NUM PH5:30a Practice routinely treat patient lists or registries yes yes yes yes rRASTHM NUM PH5:30a Practice routinely treat patient lists or registries yes yes yes rRASTHM NUM PH5:30a Practice routinely treat patients w/ Sethma yes yes yes genorate RROPRSN NUM PH5:30a Practice routinely treat patients w/ Depression yes yes yes genorate RROPRSN NUM PH5:30a Practice routinely treat patients w/ CHF yes genorate SENGAST NUM PH5:31a_1.Ashtmaxwritten guidelines in English yes yes genorate SENGAST NUM PH5:31a_2.Depression-written guidelines in English yes yes genorate RROPRSN NUM PH5:31a_2.Depression-written guidelines in other lang yes yes genorate SOTHAST NUM PH5:31a_2.Debates:written guidelines in other lang yes yes yes genorated NUM PH5:31a_2.Depression-written guidelines in other lang yes yes yes genorated NUM PH5:31a_2.Depression-written guidelines in other lang yes yes yes genorated NUM PH5:31a_2.Depression-written guidelines in other lang yes	RPTPCO	NUM	PH5:28a_1.Own pat rpt, qual preventive care delry	yes	yes
RPTCHRP NUM PH5:28b_2.Practoc rpt, qual care delry to chrn pat yes yes PPTDMO NUM PH5:28b_1.Own pat rpt, pat demographic information yes yes PPTETHO NUM PH5:28c_1.Own pat rpt, pat demographic information yes yes Yes PPTETHO NUM PH5:28c_1.Own pat rpt, qual care delry to dif race yes yes yes YES PPTETHP NUM PH5:28c_1.Own pat rpt, qual care delry to dif race yes yes yes YES PPTETHP NUM PH5:28c_1.Own pat rpt, qual care delry to dif race yes yes yes YES PPTETHP NUM PH5:28c_1.Own pat rpt, qual care delry to dif race yes yes yes YES PPTESTO NUM PH5:28c_1.Own pat rpt, qual care delry to dif race yes yes yes YES PPTESTO NUM PH5:28c_1.Own pat rpt, patient lists or registries yes yes yes YES PPTESTO NUM PH5:28c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:30c_2.Practoc rpt, patient lists or registries yes yes YES PRETEGM NUM PH5:31c_2.Diabetes.written guidelines in English yes	RPTPCP	NUM	PH5:28a_2.Practce rpt, qual preventive care delry	yes	yes
RPTDMO NUM PH528e_1.Com pat rpt, pat demographic information yes yes PPTETHO NUM PH528e_2.Practoe rpt, pat demographic information yes yes PPTETHO NUM PH528e_1.Com pat rpt, qual care deliy to dif race yes yes PPTETHO NUM PH528e_1.Com pat rpt, qual care deliy to dif race yes yes yes PPTESTO NUM PH528e_1.Tom pat rpt, patient lists or registries yes yes yes PPTLSTO NUM PH528e_2.Practoe rpt, patient lists or registries yes yes yes RPTLSTD NUM PH528e_2.Practoe rpt, patient lists or registries yes yes yes RPTLSTD NUM PH528e_2.Practoe rpt, patient lists or registries yes yes yes yes RPTLSTP NUM PH528e_2.Practoe rpt, patient lists or registries yes yes yes yes RPTLSTP NUM PH528e_2.Practoe routinely treat patients which a stamma yes	RPTCHRO	NUM	PH5:28b_1.Own pat rpt, qual care delry to chrn pat	yes	yes
RPTDIMP NUM PH5:28c_2.Practoe rpt, pat demographic information yes yes PPTETHO NUM PH5:28c_1.Own pat rpt, qual care dely to dif race yes PPTESTO NUM PH5:28c_1.Own pat rpt, qual care dely to dif race yes yes PPTESTO NUM PH5:28c_1.Own pat rpt, patient lists or registries yes yes PPTESTO NUM PH5:28c_2.Practoe rpt, qual care dely to dif race yes yes yes PPTESTO NUM PH5:28c_2.Practoe rpt, patient lists or registries yes yes yes PPTESTP NUM PH5:29c_2.Practoe rpt, patient lists or registries yes yes yes PPTESTP NUM PH5:29c_2.Practoe rpt, patient lists or registries yes yes yes PRESTPM NUM PH5:30c_3.Practice routinely treat patents will Ashima yes yes rRASTHM NUM PH5:30c.Practice routinely treat patents will Ashima yes yes yes REDNAB NUM PH5:30c.Practice routinely treat patents will Depression yes yes yes SENGDIA NUM PH5:30c.Practice routinely treat patents will Depression yes yes yes SENGDIA NUM PH5:31c_1.Ashtma:written guidelines in English yes yes SENGDIA NUM PH5:31c_3.Depression.written guidelines in English yes yes SENGDIA NUM PH5:31c_3.Depression.written guidelines in English yes yes SENGCHF NUM PH5:31c_3.Depression.written guidelines in other lang yes yes SOTHDIA NUM PH5:31c_3.Depression.written guidelines in other lang yes yes SOTHDIA NUM PH5:31c_3.Depression.written guidelines or lang yes yes SOTHDIP NUM PH5:31c_3.Depression.written guidelines or lang yes yes yes NITRAST NUM PH5:31c_3.Depression.written guidelines in other lang yes yes yes NITRAST NUM PH5:31c_3.Depression.written guidelines or lang yes yes yes NITRAST NUM PH5:31c_3.Depression.written guidelines or lang yes yes yes NITRAST NUM PH5:31c_3.Depression.written guidelines or lang yes yes yes NITRAST NUM PH5:31c_3.Depression.written guidelines or lang yes yes yes yes NITRAST NUM PH5:31c_3.Depression.or are manager monitor/coord care yes yes yes yes NITRAST NUM PH5:31c_3.Depression.pry yes yes yes NITRAST NUM PH5:31c_3.Depression.pry yes yes yes yes yes Yes NITRAST NUM PH5:31c_3.Depression.pry yes yes yes yes yes yes yes yes yes NITRAST NUM PH5:31c_4.C	RPTCHRP	NUM	PH5:28b_2.Practce rpt, qual care delry to chrn pat	yes	yes
RPTETHO NUM PH5:28d_1. Own pat rpt, qual care delry to dif race yes yes PPTETHP NUM PH5:28d_2. Practoe rpt, qual care delry to dif race yes yes PPTETHP NUM PH5:28d_2. Practoe rpt, qual care delry to dif race yes yes yes PPTESTO NUM PH5:28d_2. Practoe rpt, patient lists or registries yes yes yes RPTESTO NUM PH5:28d_2. Practoe rpt, patient lists or registries yes yes yes RPTEGM NUM PH5:28d_2. Practoe rpt, patient lists or registries yes yes yes RPTEGM NUM PH5:28d_2. Practoe routinely treat patient swith Ashtma yes yes yes restrained to the phs:30d_2. Practice routinely treat patients w/ Ashtma yes yes yes REATHM NUM PH5:30d_2. Practice routinely treat patients w/ Ashtma yes yes yes REATHM NUM PH5:30d_Practice routinely treat patients w/ CHF yes yes yes REATHMAN NUM PH5:30d_Practice routinely treat patients w/ CHF yes yes yes REATHMAN NUM PH5:31d_2. Diabetes: written guidelines in English yes yes yes REATHMAN NUM PH5:31d_3. Depression written guidelines in English yes yes yes REATHMAN NUM PH5:31d_3. Depression written guidelines in English yes yes yes REATHMAN NUM PH5:31d_3. Depression written guidelines in English yes yes yes restricted to the patient yes yes yes yes restricted to the patient yes	RPTDMO	NUM	PH5:28c_1.Own pat rpt, pat demographic information	yes	yes
RPTETHP NUM PH5:28d_2.Practoc rpt, qual care delry to dif race yes yes PTETSTO NUM PH5:28d_2.Practoc rpt, patient lists or registries yes yes Yes RPTLSTP NUM PH5:28e_2.Practoc rpt, patient lists or registries yes yes PTETSTP NUM PH5:28e_2.Practoc rpt, patient lists or registries yes yes yes RPTETPGM NUM PH5:29e_2.Practoc rpt, patient lists or registries yes yes yes RPTETPGM NUM PH5:30a.Practice routinely treat patients w/ Ashma yes yes yes great yes	RPTDMP	NUM	PH5:28c_2.Practce rpt, pat demographic information	yes	yes
RPTLSTO NUM PH5:28e_1.0wn pat rpt, patient lists or registries yes yes PTSLSTP NUM PH5:28e_2.Practoe rpt, patient lists or registries yes yes yes RPTLSTP NUM PH5:29e_Qual reporting prog sponsored by outsde org yes yes rRASTHM NUM PH5:30e_Practice routinely treat patents will Ashtma yes yes yes RRASTHM NUM PH5:30e_Practice routinely treat patents will Ashtma yes yes yes rRASTHM NUM PH5:30e_Practice routinely treat patents will Ashtma yes yes yes rRASTHM NUM PH5:30e_Practice routinely treat patents will Debetes yes yes yes rRASTHM NUM PH5:30e_Practice routinely treat patents will Debetes yes yes yes rRASTHM NUM PH5:31e_1.1Ashtma:written guidelines in English yes	RPTETHO	NUM	PH5:28d_1.Own pat rpt, qual care delry to dif race	yes	yes
PRETISTP  NUM  PH5:28_2.Practoc rpt, patient lists or registries  yes  yes  yes  PH5:78_2.Qual reporting prog sponsored by outside org  yes  yes  yes  Yes  FRASTHM  NUM  PH5:30a.Practice routinely treat patents w/ Asthma  yes  yes  yes  Yes  FRASTHM  NUM  PH5:30a.Practice routinely treat patents w/ Asthma  yes  yes  yes  Yes  Yes  Yes  Yes  Yes	RPTETHP	NUM	PH5:28d_2.Practce rpt, qual care delry to dif race	yes	yes
PRETPEGM NUM PH5:29 Qual reporting prog sponsored by outsde org yes yes rRASTHM NUM PH5:30a. Practice routinely treat patents W / Asthma yes yes rRASTHM NUM PH5:30a. Practice routinely treat patents W / Asthma yes yes rRDPRSN NUM PH5:30b. Practice routinely treat patents W / Asthma yes yes yes rRDPRSN NUM PH5:30b. Practice routinely treat patents W / Diabetes yes yes yes rRCHF NUM PH5:30d. Practice routinely treat patents w / CHF yes yes yes SENGAST NUM PH5:31a. I. Asthma: written guidelines in English yes yes yes SENGAST NUM PH5:31a. 2. Diabetes written guidelines in English yes yes yes SENGOLP NUM PH5:31a. 2. Diabetes written guidelines in English yes yes yes SENGOLF NUM PH5:31a. 3. Depression: written guidelines in English yes yes yes SENGCHF NUM PH5:31b. 1. Asthma: written guidelines in other lang yes yes 30THAST NUM PH5:31b. 2. Diabetes written guidelines in other lang yes yes 30THOLP NUM PH5:31b. 2. Diabetes written guidelines in other lang yes yes 30THOLP NUM PH5:31b. 2. Diabetes written guidelines in other lang yes yes 30THOLP NUM PH5:31b. 2. Diabetes written guidelines in other lang yes yes 30THOLP NUM PH5:31b. 3. Depression: written guidelines in other lang yes yes wes 30THOLP NUM PH5:31c. 3. Depression: written guidelines in other lang yes yes west 30THOLP NUM PH5:31c. 2. Diabetes: care manager monitor/coord care yes yes west 30THOLP NUM PH5:31c. 3. Depression: written guidelines in other lang yes yes yes west 30THOLP NUM PH5:31c. 3. Depression: written guidelines in other lang yes yes yes west 30THOLP NUM PH5:31c. 4. CHF: care manager monitor/coord care yes yes yes 30THOLP NUM PH5:31c. 3. Depression: written guidelines in other lang yes yes yes 30THOLP NUM PH5:31c. 4. CHF: care manager monitor/coord care yes yes yes 30THOLP NUM PH5:31c. 4. CHF: care manager monitor/coord care yes yes yes 30THOLP NUM PH5:31c. 4. CHF: Group visits w/ staff for ducate patient yes yes yes 30THOLP NUM PH5:31c. 4. CHF: Group visits w/ staff provide care yes yes 30THOLP NUM PH5:33c. 2. Diabetes: Non-phys staff to educate p	RPTLSTO	NUM	PH5:28e_1.Own pat rpt, patient lists or registries	yes	yes
IRASTHM NUM PH5:30a.Practice routinely treat patents w/ Asthma yes yes rRDNAB NUM PH5:30b.Practice routinely treat pate w/ Diabetes yes yes rRDNAB NUM PH5:30b.Practice routinely treat pate w/ Diabetes yes yes rRCHF NUM PH5:30b.Practice routinely treat pate w/ Diabetes yes yes rRCHF NUM PH5:30b.Practice routinely treat patients w/ CHF yes yes yes rRCHF NUM PH5:31a_1.Asthma.written guidelines in English yes yes yes gENGDIA NUM PH5:31a_1.Diabetes-written guidelines in English yes yes gENGDIA NUM PH5:31a_3.Depression:written guidelines in English yes yes gENGDEP NUM PH5:31a_3.Depression:written guidelines in English yes yes gENGDEP NUM PH5:31b_1.Asthma.written guidelines in other lang yes yes 30THAST NUM PH5:31b_1.Asthma.written guidelines in other lang yes yes 30THAST NUM PH5:31b_3.Depression:written guidelines in other lang yes yes 30THDEP NUM PH5:31b_3.Depression:written guidelines in other lang yes yes 30THCHF NUM PH5:31b_3.Depression:written guidelines in other lang yes yes 30THCHF NUM PH5:31b_3.Depression:written guidelines in other lang yes yes 30THCHF NUM PH5:31c_4.CHF:written guidelines in other lang yes yes 30THCHF NUM PH5:31c_4.CHF:written guidelines in other lang yes yes 30THCHF NUM PH5:31c_5.Debtess-written guidelines in other lang yes yes 30THCHF NUM PH5:31c_5.Debtession:care manager monitor/coord care yes yes 30THCHF NUM PH5:31c_5.Debtession:cord or 30THCHF NUM PH5:31c_5.Debtession:care manager monitor/coord care yes yes 30THCHF NUM PH5:31c_5.Debtession:cord or 30THCHF NUM	RPTLSTP	NUM	PH5:28e_2.Practce rpt, patient lists or registries	yes	yes
IRDIAB  NUM PH5:30b.Practice routinely treat pats w/ Diabetes  yes yes rRDPRSN  NUM PH5:30c.Practice routinely treat pat w/ Depression  yes yes yes yes genome. The phs:30c.Practice routinely treat pat w/ Depression  yes	QRPTPGM	NUM	PH5:29.Qual reporting prog sponsored by outsde org	yes	yes
IRDPRSN NUM PH5:30c.Practice routinely treat pat w/ Depression yes yes rRCHF NUM PH5:30c.Practice routinely treat pat w/ Depression yes yes yes selected by PH5:30c.Practice routinely treat patients w/ CHF yes yes yes SENGAST NUM PH5:31a_2.Diabetes:written guidelines in English yes yes SENGDIA NUM PH5:31a_2.Diabetes:written guidelines in English yes yes SENGDIA NUM PH5:31a_3.Depression:written guidelines in English yes yes SENGCHF NUM PH5:31a_4.CHF:written guidelines in English yes yes SENGCHF NUM PH5:31a_4.CHF:written guidelines in english yes yes yes SOTHAST NUM PH5:31b_1.Asthma:written guidelines in other lang yes yes yes SOTHAST NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes sOTHAST NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the lang yes yes yes yes with the lang yes	TRASTHM	NUM	PH5:30a.Practice routinely treat patents w/ Asthma	yes	yes
PRCHF NUM PH5:30d_Practice routinely treat patients w/ CHF yes yes SENGAST NUM PH5:31a_1.Asthma.written guidelines in English yes yes SENGDIA NUM PH5:31a_2.Diabetes:written guidelines in English yes yes SENGDIA NUM PH5:31a_3.Depression-written guidelines in English yes yes SENGCHF NUM PH5:31a_3.Depression-written guidelines in English yes yes SENGCHF NUM PH5:31a_3.Depression-written guidelines in English yes yes SENGCHF NUM PH5:31b_1.Asthma.written guidelines in Interlaing yes yes yes SOTHAST NUM PH5:31b_1.Asthma.written guidelines in other lang yes yes yes SOTHAST NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes SOTHCHF NUM PH5:31b_3.Depression-written guidelines other lang yes yes yes SOTHCHF NUM PH5:31b_3.Depression-written guidelines other lang yes yes yes WINTRAST NUM PH5:31c_1.Asthma.care manager monitor/coord care yes yes with summary of the source yes yes yes yes yes yes yes yes yes ye	TRDIAB	NUM	PH5:30b.Practice routinely treat pats w/ Diabetes	yes	yes
SENGAST NUM PH5:31a_1.Asthma:written guidelines in English yes yes SENGDIA NUM PH5:31a_2.Diabetes:written guidelines in English yes yes SENGDEP NUM PH5:31a_3.Depression:written guidelines in English yes yes SENGCHF NUM PH5:31a_4.CHF:written guidelines in English yes yes SOTHAST NUM PH5:31b_1.Asthma:written guidelines in other lang yes yes yes SOTHAST NUM PH5:31b_1.Asthma:written guidelines in other lang yes yes yes SOTHDIA NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes SOTHOLP NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes SOTHOLP NUM PH5:31b_4.CHF-written guidelines in other lang yes	TRDPRSN	NUM	PH5:30c.Practice routinely treat pat w/ Depression	yes	yes
SENGDIA NUM PH5:31a_2.Diabetes:written guidelines in English yes yes 2ENGDEP NUM PH5:31a_3.Depression:written guidelines in English yes yes 2ENGCHF NUM PH5:31a_4.CHF-written guidelines in English yes yes yes 3OTHAST NUM PH5:31b_1.Asthma:written guidelines in English yes yes yes 3OTHAST NUM PH5:31b_1.Asthma:written guidelines in other lang yes yes yes 3OTHADIA NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes 3OTHADIA NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes 3OTHADIA NUM PH5:31b_4.CHF-written guidelines in other lang yes yes yes 3OTHADIA NUM PH5:31b_4.CHF-written guidelines in other lang yes yes yes 3OTHADIA NUM PH5:31c_1.Asthma:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_1.Diabetes:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_2.Diabetes:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_3.Depression:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_3.Diabetes:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_3.Depression:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31c_3.Depression:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:care manager monitor/coord care yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate patient yes yes yes 3OTHADIA NUM PH5:31d_3.Depression:Non-phys staff to educate pati	TRCHF	NUM	PH5:30d.Practice routinely treat patients w/ CHF	yes	yes
DENGDEP NUM PH5:31a_3.Depression:written guidelines in English yes yes yes SENGCHF NUM PH5:31a_4.CHF:written guidelines in English yes yes yes SOTHAST NUM PH5:31b_1.Ashtma:written guidelines in other lang yes yes yes SOTHAST NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes SOTHOLP NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes 3OTHCHF NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes 3OTHCHF NUM PH5:31b_4.CHF:written guidelines in other lang yes yes yes 3OTHCHF NUM PH5:31c_1.Ashtma:care manager monitor/coord care yes yes yes 4MTRDIA NUM PH5:31c_2.Diabetes:care manager monitor/coord care yes yes yes 4MTRDIA NUM PH5:31c_3.Depression:care manager monitor/coord care yes yes yes 4MTRDIA NUM PH5:31c_4.CHF:care manager monitor/coord care yes yes yes 4MTRDIA NUM PH5:31c_4.CHF:care manager monitor/coord care yes yes yes yes yes yes yes yes yes ye	GENGAST	NUM	PH5:31a_1.Asthma:written guidelines in English	yes	yes
SENGCHF NUM PH5:31a_4.CHF:written guidelines in English yes yes yes GOTHAST NUM PH5:31b_1.Asthma:written guidelines in other lang yes yes yes GOTHAST NUM PH5:31b_2.Diabetes:written guidelines in other lang yes yes yes GOTHOLP NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes GOTHOLP NUM PH5:31b_3.Depression:written guidelines other lang yes yes yes gother NUM PH5:31b_4.CHF:written guidelines in other lang yes yes yes yes witten guidelines in other lang yes yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the properties of the lang yes yes yes with the lang yes yes yes yes with the lang yes	GENGDIA	NUM	PH5:31a_2.Diabetes:written guidelines in English	yes	yes
PH5:31b_1.Asthma:written guidelines in other lang  yes yes  yes  OTHDEP  NUM PH5:31b_2.Diabetes:written guidelines in other lang  yes yes  OTHDEP  NUM PH5:31b_3.Depression:written guidelines other lang  yes yes  OTHCHF  NUM PH5:31b_4.CHF:written guidelines in other lang  yes yes  yes  OTHCHF  NUM PH5:31b_4.CHF:written guidelines in other lang  yes yes  yes  yes  yes  MNTRAST  NUM PH5:31b_4.CHF:written guidelines in other lang  yes yes  yes  yes  yes  yes  MNTRAST  NUM PH5:31c_1.Asthma:care manager monitor/coord care  yes yes  yes  yes  yes  Yes  MNTRDEP  NUM PH5:31c_3.Depression:care manager monitor/coord care  yes yes  yes  yes  Yes  PATAST  NUM PH5:31d_1.Asthma:Non-phys staff to educate patient  yes yes  Yes  PATDIA  NUM PH5:31d_3.Depression:Non-phys staff to educate pat  yes  Yes  PATOLEP  NUM PH5:31d_4.CHF:Non-phys staff to educate pat  yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	GENGDEP	NUM	PH5:31a_3.Depression:written guidelines in English	yes	yes
ANTROLE  NUM PH5:31b_2.Diabetes:written guidelines in other lang  yes yes  yes  OTHOLE  NUM PH5:31b_3.Depression:written guidelines other lang  yes yes  yes  OTHOLE  NUM PH5:31b_4.CHF:written guidelines other lang  yes yes  yes  yes  MNTRAST  NUM PH5:31b_4.CHF:written guidelines other lang  yes yes  yes  yes  MNTRAST  NUM PH5:31c_1.Sathma:care manager monitor/coord care  yes yes  WINTROLE  NUM PH5:31c_3.Depression:care manager monitor/coord care  yes yes  MNTROLE  NUM PH5:31c_4.CHF:care manager monitor/coord care  yes yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	GENGCHF	NUM	PH5:31a_4.CHF:written guidelines in English	yes	yes
PH5:31b_3.Depression:written guidelines other lang  yes	GOTHAST	NUM	PH5:31b_1.Asthma:written guidelines in other lang	yes	yes
PH5:31b_4.CHF:written guidelines in other lang  yes	GOTHDIA	NUM	PH5:31b_2.Diabetes:written guidelnes in other lang	yes	yes
MNTRAST NUM PH5:31_1_1.Asthma:care manager monitor/coord care yes yes MNTRDIA NUM PH5:31_2_1.Diabetes:care manager monitor/coord care yes yes MNTRDEP NUM PH5:31_2_3.Depression:care manager monitor/coord cr yes yes MNTRCHF NUM PH5:31_4.CHF:care manager monitor/coord cr yes yes yes MNTRCHF NUM PH5:31_4_1.Asthma:Non-phys staff to educate patient yes yes yes PATAST NUM PH5:31_4_1.Diabetes:Non-phys staff to educate patient yes yes yes PATDEP NUM PH5:31_4_2.Diabetes:Non-phys staff to educate patient yes yes yes yes PATDEP NUM PH5:31_4_3.Depression:Non-phys staff to educate patient yes	GOTHDEP	NUM	PH5:31b_3.Depression:written guidelines other lang	yes	yes
MINTRDIA NUM PH5:31c_2.Diabetes:care manager monitor/coord care yes yes MINTRDEP NUM PH5:31c_3.Depression:care manager monitor/coord cr yes yes yes MINTRCHF NUM PH5:31c_4.CHF:care manager monitor/coordinate care yes yes yes Yes PATAST NUM PH5:31d_1.Asthma:Non-phys staff to educate patient yes yes yes PATAST NUM PH5:31d_1.Asthma:Non-phys staff to educate patient yes yes yes Yes PATDIA NUM PH5:31d_2.Diabetes:Non-phys staff to educate pata yes Y	GOTHCHF	NUM	PH5:31b_4.CHF:written guidelines in other lang	yes	yes
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MNTRCHF NUM PH5:31c_4.CHF:care manager monitor/coordinate care yes yes PATAST NUM PH5:31d_1.Asthma:Non-phys staff to educate patient yes yes PATDIA NUM PH5:31d_2.Diabetes:Non-phys staff to educate pata yes yes PATDIEP NUM PH5:31d_3.Depression:Non-phys staff to educate pata yes yes PATCHF NUM PH5:31d_4.CHF:Non-phys staff to educate pat yes yes PATCHF NUM PH5:31e_1.Asthma:Group visits w/ staff provid care yes yes PASTAST NUM PH5:31e_2.Diabetes:Group visits w/ staff provid care yes yes PASTDIA NUM PH5:31e_2.Diabetes:Group visits w/ staff prvd care yes yes PASTDIA NUM PH5:31e_3.Depression:Group visits w/ staff prvd care yes yes PASTCHF NUM PH5:31e_4.CHF:Group visits w/ staff provide care yes yes PASTCHF NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:32-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats in disease managemnt prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats humanagement prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats humanagement prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats humanagement prog by hlth plan yes yes PASTONEP NUM PH5:33-Pats humanagement prog by hlth plan yes yes PASTONEP N	MNTRDIA	NUM	PH5:31c_2.Diabetes:care manager monitor/coord care	yes	yes
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TO TOO TI TOO TO THE TOTAL OF T				<del>                                     </del>	
NOTINTRP NUM PH5:34d.Unable obtained:Interpreter services yes yes			i i		yes

Variable Name	Variable Type	Description	PUF Status	RUF Status
FORMLRY	NUM	PH5:35.Pct of pats have RX covrge incl formulary?	yes	yes
_FORMLRY	NUM	PH5:Imputation flag for FORMLRY		yes
GENERIC	NUM	PH5:36a.How often do you prescribe a generic RX	yes	yes
DIAGCST	NUM	PH5:36b.If not sure, cnsdr OOP cst in decide test?	yes	yes
OPTCST	NUM	PH5:36c.Cnsdr OOP cst in decide outpt/inpat care?	yes	yes
QNOTIME	NUM	PH5:37a.Problem:Inadq time with pats during visit	yes	yes
QPRBPAY	NUM	PH5:37b.Problem:Patient unable to pay needed care	yes	yes
QINSREJ	NUM	PH5:37c.Problem:Insurance rejects care decision	yes	yes
QNOSPEC	NUM	PH5:37d.Problem:Lack of qualified spec in area	yes	yes
QNOREPT	NUM	PH5:37e.Problem:Not getting timely rpt from oth dr	yes	yes
QPRBCOM	NUM	PH5:37f.Problem:Comm difficulties due to language	yes	yes
QNONCMP	NUM	PH5:37g.Problm:Pat non-compliance w/ trtmnt recomd	yes	yes
QERRHSP	NUM	PH5:37h.Problem:Medical errors in hospitals	yes	yes
QPRBOTH1	NUM	PH5:37i_1.Problem:oth problm for prvd hi qual care		
QPRBOTH2	NUM	PH5:37i_2.Problem:oth problm for prvd hi qual care		
QPRBOTH3	NUM	PH5:37i_3.Problem:oth problm for prvd hi qual care		
NWMCARE	NUM	PH5:38.Accept new Medicare patients	yes	yes
NWMCARE	NUM	PH5:Imputation flag for NEMCARE		yes
MRBILL	NUM	PH5:38a.No accept Mcare:billing requirement	yes	yes
MRAUDIT	NUM	PH5:38a.No accept Mcare:concern about audit	yes	yes
MRREIMB	NUM	PH5:38a.No accept Mcare:inadequate reimb	yes	yes
MRNUFPT	NUM	PH5:38a.No accept Mcare:have enough pats	yes	yes
MRPTBUR	NUM	PH5:38a.No accept Mcare:Mcare pat high clin burdn	yes	yes
NWMCAID	NUM	PH5:39. Accept new Medicaid patients	yes	yes
_NWMCAID	NUM	PH5:Imputation flag for NWMCAID	· ·	yes
MDBILL	NUM	PH5:39a.No accept Mcaid:billing requirement	yes	yes
MDDELAY	NUM	PH5:39a.No accept Mcaid:delayed reimbursement	yes	yes
MDREIMB	NUM	PH5:39a.No accept Mcaid:inadequate reimb	yes	yes
MDNUFPT	NUM	PH5:39a.No accept Mcaid:have enough pats	yes	yes
MDPTBUR	NUM	PH5:39a.No accept Mcaid:Mcidd pat high clin burdn	yes	yes
NWPRIV	NUM	PH5:40.Accept new privately insured	yes	yes
NWPRIV	NUM	PH5:Imputation flag for NWPRIV		yes
PMCARE	NUM	PH5:41_A.Pct revenue from Medicare	yes	yes
_PMCARE	NUM	PH5:Imputation flag for PMCARE	7	yes
PMCAID	NUM	PH5:41_B.Pct revenue from Medicaid	yes	yes
PMCAID	NUM	PH5:Imputation flag for PMCAID	,	yes
PCAPREV	NUM	PH5:42.Pct revenue from capitated basis?	yes	yes
PCAPREV	NUM	PH5:Imputation flag for PCAPREV	1 ,==	yes
NMCCON	NUM	PH5:43. Number of managed care contacts	yes	yes
NMCCON	NUM	PH5:Imputation flag for NWCCON	,,,,	yes
MALWORRY	NUM	PH5:44.Concerned be involved malpractice in 10 yrs	yes	yes
MALDAILY	NUM	PH5:44.Pressured by threat of malpractice suits	yes	yes
MALTESTS	NUM	PH5:44.Order tests to avoid malpractice suits	yes	yes
MALCNSLT	NUM	PH5:44.Ask consultant to reduce risk of being sued	yes	yes
MALCRISK	NUM	PH5:44.Rely technology to avoid malpractice suits		
ABOWN	NUM	PH5:45a_1.Practice own/lease equipmnt: Lab testing	yes	yes
			yes	yes
LABLOC VRAYOWN	NUM	PH5:45a_2.Equipment location: Laboratory testing		yes
KRAYOWN	NUM NUM	PH5:45b_1.Practice own or lease equipment: X-rays PH5:45b_2.Equipment location: X-rays	yes	yes

Variable Name	Variable Type	Description	PUF Status	RUF Status
IMAGOWN	NUM	PH5:45c_1.Practice own/lease equipment:Oth imaging	yes	yes
IMAGLOC	NUM	PH5:45c_2.Equipment location:Oth diagnstic imaging		yes
NIVOWN	NUM	PH5:45d_1.Practice own/lease: Non-invasive testing	yes	yes
NIVLOC	NUM	PH5:45d_2.Equipment location: Non-invasive testing		yes
VPROWN	NUM	PH5:45e_1.Practice own/lease: Invasive procedures	yes	yes
VPRLOC	NUM	PH5:45e_2.Equipment location: Invasive procedures		yes
_ABSOWN	NUM	PH5:46a.Self own/lease equipment: Lab testing		yes
KRAYSOWN	NUM	PH5:46b.Self own/lease equipment: X-rays		yes
MAGSOWN	NUM	PH5:46c.Self own/lease equipment:Oth diag imaging		yes
NIVSOWN	NUM	PH5:46d.Self own/lease equipment:Non-invasive test		yes
VPRSOWN	NUM	PH5:46e.Self own/lease equipment:Invasive prcdures		yes
OWNHSP	NUM	PH5:47.Main practice own(fully/in part) a hosptal?	yes	yes
SOWNHSP	NUM	PH5:48.Personally own (fully/in part) a hospital?		yes
COMPTYP	NUM	PH5:49.Methods describes your basic compensation?	yes	yes
BONUSR	NUM	PH5:50.Eligible of bonus or incentive plan?	yes	yes
SPROD	NUM	PH5:51a_1.Own productivity affects compensation	yes	yes
MPPROD	NUM	PH5:51a_2.Imprtant for your comp: own productivity	yes	yes
SSAT	NUM	PH5:51b_1.Satisfaction surveys affcts compensation	yes	yes
MPSAT	NUM	PH5:51b_2.Imprtant for your comp:Satisfaction srvy	yes	yes
SQUAL	NUM	PH5:51c_1.Quality measures affects compensation	yes	yes
MPQUAL	NUM	PH5:51c_2.Important for your comp:Quality measures	yes	yes
SPROF	NUM	PH5:51d_1.Profiling results affects compensation	yes	yes
MPPROF	NUM	PH5:51d_2.Imprtant for your comp:Profiling results	yes	yes
SPERF	NUM	PH5:51e_1.Practice performance affect compensation	yes	yes
MPPERF	NUM	PH5:51e_2.Important for comp: Practice performance	yes	yes
FREEFD	NUM	PH5:52a.From drug companies:Free food/beverages?	yes	yes
FREERX	NUM	PH5:52b.From drug companies:Free drug samples?	yes	yes
HNSPEAK	NUM	PH5:52c.From drug companies:Honoraria for speakng?	yes	yes
HNSVRVY	NUM	PH5:52d.From drug companies:Honoraria in surveys?	yes	yes
PYCNSLT	NUM	PH5:52e.From drug companies:Paymnt consulting svc?	yes	yes
PYTRIAL	NUM	PH5:52f.From drug companies:Paymnt clnical trials?		yes
CSTTRVL	NUM	PH5:52g.From drug companies:travel to meeting cst?	yes	yes
GIFTRX	NUM	PH5:52h.From drug companies:Gifts as rsult RX prc?		yes
GFTTCKT	NUM	PH5:52i.From drug companies:Complementary tickets?		yes
CMECRDT	NUM	PH5:52j.Frm drug companies:Adm to conf CME credits	yes	yes
GFTOTHX	NUM	PH5:52.Frm drug companies:Other gift	yes	,
MRELCOMP	NUM	PH5:53.Total value received from drug companies	,	yes
MRELCMPX	NUM	PH5:53.Total value received from drug companies	yes	,,,,,
NCCAT	NUM	PH5:54.Net income from practice of medicine, catg	yes	yes
INCCAT	NUM	PH5:Imputation flag for INCCAT	,,,,	yes
NCPROD	NUM	PH5:55.Pct net income based on your productivity?	yes	yes
HISP	NUM	PH5:56.Consider yourself to be of Hispanic origin?	,,,,	yes
RACE WHT	NUM	PH5:57.Race: White	<del>-  </del>	yes
RACE_BLK	NUM	PH5:57.Race: Black or African-American		yes
RACE_ASN	NUM	PH5:57.Race: Asian or Pacific Islander	+	yes
RACE_NTV	NUM	PH5:57.Race: Native American or Alaska Native	+	
RACE_NTV RACE_OTH	NUM	PH5:57.Race: Native American or Alaska Native		yes
				yes
RACETHN RACETHX	NUM NUM	PH5:CV.Race/ethnicity PH5:CV.Race/ethnicity	yes	yes

Specification	Specifications for 2008 Health Tracking Physician Survey Public and Restricted Use Files						
Variable Name	Variable Type	Description	PUF Status	RUF Status			
LOCCHK	NUM	PH5:58.Main practice address correct?					
SSTATE	CHAR	PH5:59.state of main medical practice					
SZIP	CHAR	PH5:59.zipcode of main medical practice					
ADM_PAT	NUM	PH5:60.Flag of not admitting patients	yes	yes			
STRATA	NUM	PH5:CV:Sampling strata		yes			
NFSU	NUM	PH5:Sampling unit		yes			
WEIGHT	NUM	PH5:CV:Analysis Weight	yes	yes			

# APPENDIX C

Sample SUDAAN, SAS, and STATA Procedure Statements

### APPENDIX C SAMPLE SUDAAN, STATA, AND SAS PROCEDURE STATEMENTS

Although the 2008 HSC Health Tracking Physician Survey sample design is similar to one based on simple random sampling, the stratification and unequal weighting will result in somewhat biased variance estimates if specialized software for complex samples is not used. Use of such software routines is recommended.

This appendix provides sample code to analyze data from the 2008 HSC Health Tracking Physician Survey data for three common statistical packages: SUDAAN, SAS, and STATA. (As a default, all three use the Taylor series linearization method for estimating population characteristics from complex sample survey data). The procedures have the capacity to handle stratification and probability sampling weights (among other complex sample design features). In addition, each package has more extensive features for managing and processing data and for performing statistical procedures not explored here.

The sample procedures represent relatively simple, straightforward applications. Depending on the statistical package you use, complex survey options may not be available for all statistical procedures you may wish to use. Our intention is not to suggest analytical approaches but to provide the key commands and parameters that capture the relevant characteristics of the sample design.

One important caution to exercise when analyzing data from complex surveys is to avoid subsetting to just those records that will be used in the analysis. Rather, the full population should be processed even when analyses are for subgroups or subpopulations. This is required to ensure the correct computation of the sampling variance. Below we discuss the options in each package for analyzing subpopulations (or, domains) within a sample population.

There are a number of releases of each software package running on several different platforms. As a result, enhancements or subtle differences can exist from one release to the next, particularly in terms of reading and writing external data files. The statements displayed in the examples in this appendix are tailored for SUDAAN Release 10.0.0, SAS-callable for Windows, Stata Release 10.1 and SAS Release 9.2. The user should take this into consideration when using these examples or parts of these examples verbatim.

The 2008 HSC Health Tracking Physician Survey consists of a national stratified random sample. The data files contain a single sample weight (WEIGHT) and a single analysis parameter that defines the stratification (STRATA) necessary for estimating the sampling variance for a statistic.

Examples are provided for full sample, national estimates. The examples assume that the analysis is being performed for all records with WEIGHT>0 All 4,720 records meet this criterion.

#### C.1 SAMPLE SUDAAN STATEMENTS

Before performing analysis, the data file must be sorted by the design parameters (in this case, STRATA).

Preprocessing or recoding may be required for some variables because of missing data. Missing data in the file were assigned appropriate values (see Chapter 5 for variable coding conventions). Classification (SUBGROUP) variables with zero values will be treated by SUDAAN as missing and dropped from the procedure. This does not hold true for continuous analysis variables (VAR) where zero or negative values are valid.

The design statement tells SUDAAN the nature of the sampling method, i.e. whether the sample was selected with or without replacement, and whether the selection probabilities were equal across all sampling units (in this case, physicians). Design=WR specifies that the sampling units were selected with replacement and equal probabilities of selection within stratum. (If the prefix UN- is added before WR, this would indicate unequal probabilities).

The nest statement tells SUDAAN which variables contain the sampling structure, in this case, the stratification information (STRATA).

The weight statement indicates the variable containing sampling weights (WEIGHT).

The var statement lists the analysis variables.

The subgroup statement lists categorical variables for subgroup analysis. The levels statement tells SUDAAN the number of levels of the corresponding categorical variable.

Formats (the RFORMAT statement) need to be consistent with SUDAAN rules. Therefore, the preexisting formats provided with the Restricted Use File may need to be modified for use in SUDAAN. It is a SUDAAN convention to include a total count for each subgroup variable, with a value of "0" representing the total. Therefore, if the subgroup variable can take on the value of "0" in the data, then the value should be changed to a positive integer.

The SUDAAN statement SUBPOPN should be used to identify the specific analytic subpopulation of interest. If the file is reduced to a specific subpopulation, the sampling variance estimates SUDAAN computes may be wrong.

Common SUDAAN statements that can be used for complex survey analysis include DESCRIPT, CROSSTAB, DESCRIPT, REGRESS, LOGISTIC, SURVIVAL, RATIO, and MULTILOG.

#### C.1.1 Complex survey parameters when using SUDAAN

This example estimates the mean percentage of patients suffering from a chronic condition, as reported by physician respondents, broken down by seven specialty categories (General Internal

Medicine, Family/General Practice, General Pediatrics, Medical Specialties, Surgical Specialties, Psychiatry, ObGyn). Standard errors and population counts are also included in the output.

```
proc descript data=phys filetype=sas design=wr;
nest strata;
weight weight;
setenv topmgn=0;
subgroup spec;
levels 5;
rformat spec spec.;
var chrnpt;
print nsum wsum mean semean / style=nchs
nsumfmt=f6.0 wsumfmt=f10.0 meanfmt=f8.4 semeanfmt=f10.4;
run;
```

The second example estimates the percentage of physicians who report their practice having and personally using information technology for communicating with patients via email (ITCOMMU) by gender (GENDER). Standard errors and population counts are also included in the output.

```
proc crosstab data=phys filetype=sas design=wr;
nest strata;
weight weight;
setenv topmgn=0;
subgroup gender itcommu;
levels 2 3;
rformat gender gender.;
rformat itcommu itcommu.;
tables gender * itcommu;
print nsum wsum rowper serow / style=nchs
nsumfmt=f6.0 wsumfmt=f10.0 rowperfmt=f8.4 serowfmt=f10.4;
run;
```

#### **C.2 SAMPLE SAS STATEMENTS**

When working with complex survey data, SAS offers four procedures which can incorporate the sample design into the analyses: SURVEYMEANS, SURVEYFREQ, SURVEYREG, and SURVEYLOGISTIC.

The domain statement requests subpopulation analysis, in addition to analysis for the entire population. The domain statement in this example will generate estimates for all categories of the variable spec (constructed variable consisting of seven specialty categories). There is no option within the surveymeans procedure to select only a specific population subgroup (e.g., spec=3,

pediatricians).

The stratum statement names the variable that forms the strata in the stratified sampling design (STRATA). The weight statement identifies the variable containing the sampling weights (WEIGHT). Finally, the var statement names the variables to be analyzed (CHRNPT, HRSMED).

#### C.2.2 Complex survey parameters when using SAS

This example uses the SURVEYMEANS procedure to estimate the mean percentage of physicians' patients with a chronic condition (CHRNPT) and the mean hours last week spent in all medically-related activities (HRSMED), broken down by seven specialty categories (SPEC). Standard errors of the means, unweighted and weight population counts are also included in the output.

proc surveymeans data=phys, nobs sumwgt mean stderr;
domain spec;
stratum strata;
weight weight;
var chrnpt hrsmed;
run;

#### C.3 SAMPLE STATA STATEMENTS

Unlike the single-step procedures used by SUDAAN and SAS, Stata separates the tasks of setting the design and performing the actual analysis. The code begins with a one-time declaration of the design characteristics using the command *svyset*. The *[pweight=]* statement specifies the variable used for sample weighting and *strata()* indicates the variable delineating strata.

Analysis is performed identically to that using independent, identically distributed data, with the simple addition of the *svy:* prefix before the command. In order to limit the analysis to a subgroup of interest, e.g. females, use the prefix, *svy, subpop(females),:* in the last line, where females is a constructed variable set equal to one when GENDER="2", Female" and zero otherwise. The subpop option requires a true/false argument, as a zero value of the input variables indicates cases to be excluded.

Common procedures that are compatible with the *svy:* prefix include mean, tabulate, regress, and logit, among others.

#### C.3.1 Complex survey parameters when using Stata

This example estimates the mean percentage of physicians' patients with a chronic condition (CHRNPT) and the mean hours spent in all medically-related activities in the previous week (HRSMED) for physicians by seven-category specialty designation (SPEC). Standard errors of the means, unweighted and weight population counts are also included in the output.

use "\$directory\ph5b005.dta", clear; svyset [pweight=weight], strata(strata); svy: mean chrnpt hrsmed, over(spec);